NOAA Technical Report NMFS 62

December 1987

Fishery Publication Index, 1980-85
Technical Memorandum Index, 1972-85

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NOAA TECHNICAL REPORT NMFS

The major responsibilities of the National Marine Fisheries Service (NMFS) are to monitor and assess the abundance and geographic distribution of fishery resources, to understand and predict fluctuations in the quantity and distribution of these resources, and to establish levels for their optimum use. NMFS is also charged with the development and implementation of policies for managing national fishing grounds, development and enforcement of domestic fisheries regulations, surveillance of foreign fishing off United States coastal waters, and the development and enforcement of international fishery agreements and policies. NMFS also assists the fishing industry through marketing service and economic analysis programs, and mortgage insurance and vessel construction subsidies. It collects, analyzes, and publishes statistics on various phases of the industry.

The NOAA Technical Report NMFS series was established in 1983 to replace two subcategories of the Technical Reports series: "Special Scientific Report—Fisheries" and "Circular." The series contains the following types of reports: Scientific investigations that document long-term continuing programs of NMFS; intensive scientific reports on studies of restricted scope; papers on applied fishery problems; technical reports of general interest intended to aid conservation and management; reports that review in considerable detail and at a high technical level certain broad areas of research; and technical papers originating in economics studies and from management investigations. Since this is a formal series, all submitted papers receive peer review and those accepted receive professional editing before publication.

Copies of NOAA Technical Reports NMFS are available free in limited numbers to governmental agencies, both Federal and State. They are also available in exchange for other scientific and technical publications in the marine sciences. Individual copies may be obtained from: U.S. Department of Commerce, National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Although the contents have not been copyrighted and may be reprinted entirely, reference to source is appreciated.

13. Guidelines for reducing porpoise mortality in tuna purse seining, by James M. Coe, David B. Holts, and Richard W. Butler. September 1984, 16 p.

14. Synopsis of biological data on shortnose sturgeon, *Acipenser brevirostrum* LeSueur 1818, by Michael J. Dadswell, Bruce D. Taubert, Thomas S. Squiers, Donald Marchette, and Jack Buckley. October 1984, 45 p.

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16. Proceedings of the Ninth and Tenth U.S.-Japan Meetings on Aquaculture, by Carl J. Sindermann (editor). November 1984, 92 p.

17. Identification and estimation of size from the beaks of 18 species of cephalopods from the Pacific Ocean, by Gary A. Wolff. November 1984, 50 p.

18. A temporal and spatial study of invertebrate communities associated with hard-bottom habitats in the South Atlantic Bight, by E. L. Wenner, P. Hinde, D. M. Knott, and R. F. Van Dolah. November 1984, 104 p.

19. Synopsis of biological data on spottail pinfish, *Diplodus holbrooki* (Pisces: Sparidae), by George H. Darcy. January 1985, 11 p.

20. Ichthyoplankton of the Continental Shelf near Kodiak Island, Alaska, by Arthur W. Kendall, Jr., and Jean R. Dunn. January 1985, 89 p.

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27. Proceedings of the Eleventh U.S.-Japan Meeting on Aquaculture, Salmon Enhancement, Tokyo, Japan, October 19-20, 1982, by Carl J. Sindermann (editor). March 1985, 102 p.

28. Review of geographical stocks of tropical dolphins (*Stenella* spp. and *Delphinus delphis*) in the eastern Pacific, by William F. Perrin, Michael D. Scott, G. Jay Walker, and Virginia L. Cass. March 1985, 28 p.

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30. Synopsis of biological data on the pink shrimp, *Pandalus borealis* Krøyer, 1838, by Sandra E. Shumway, Herbert C. Perkins, Daniel F. Schick, and Alden P. Stickney. May 1985, 57 p.

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31. Shark catches from selected fisheries off the U.S. east coast, by Emory D. Anderson, John G. Casey, John J. Hoey, and W. N. Witzell. July 1985, 22 p.

32. Nutrient Distributions for Georges Bank and adjacent waters in 1979, by A. F. J. Draxler, A. Matte, R. Waldhauer, and J. E. O'Reilly. July 1985, 34 p.

33. Marine flora and fauna of the Northeastern United States. Echinodermata: Echinoidea, by D. Keith Serafy and F. Julian Fell. September 1985, 27 p.

34. Additions to a revision of the shark genus *Carcharhinus*: Synonymy of *Aprionodon* and *Hypoprion*, and description of a new species of *Carcharhinus* (Carcharhinidae), by J. A. F. Garrick. November 1985, 26 p.

35. Synoptic review of the literature on the Southern oyster drill *Thais haemastoma floridana*, by Philip A. Butler. November 1985, 9 p.

36. An egg production method for estimating spawning biomass of pelagic fish: Application to the northern anchovy, *Engraulis mordax*, by Reuben Lasker (editor). December 1985, 99 p.

37. A histopathologic evaluation of gross lesions excised from commercially important North Atlantic marine fishes, by Robert A. Murchelano, Linda Despres-Patanjo, and John Ziskowski. March 1986, 14 p.

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39. Survey of fish protective facilities at water withdrawal sites on the Snake and Columbia Rivers, by George A. Swan, Tommy G. Withrow, and Donn L. Park. April 1986, 34 p.

40. Potential impact of ocean thermal energy conversion (OTEC) on fisheries, by Edward P. Myers, Donald E. Hoss, Walter M. Matsumoto, David S. Peters, Michael P. Seki, Richard N. Uchida, John D. Ditmars, and Robert A. Paddock. June 1986, 33 p.

41. A stationary visual census technique for quantitatively assessing community structure of coral reef fishes, by James A. Bohnsack and Scott P. Bannerot. July 1986, 15 p.

42. Effects of temperature on the biology of the northern shrimp, *Pandalus borealis*, in the Gulf of Maine, by Spencer Apollonio, David K. Stevenson, and Earl E. Dunton, Jr. September 1986, 22 p.

43. Environment and resources of seamounts in the North Pacific, by Richard N. Uchida, Sigeiti Hayasi, and George W. Boehlert (editors). September 1986, 105 p.

44. Synopsis of biological data on the porgies, *Calamus arctifrons* and *C. proridens* (Pisces: Sparidae), by George H. Darcy. September 1986, 19 p.

45. Meristic variation in *Sebastes* (Scorpaenidae), with an analysis of character association and bilateral pattern and their significance in species separation, by Lo-chai Chen. September 1986, 17 p.

46. Distribution and relative abundance of pelagic nonsalmonid nekton off Oregon and Washington 1979-84, by Richard D. Brodeur and William G. Pearcy. December 1986, 85 p.

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U.S. DEPARTMENT OF COMMERCE
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CONTENTS

Introduction 1

Publications Distribution 1

Formal Publications Series 2
- *Circular* 2
- *Fishery Bulletin* 3
- *Marine Fisheries Review* 15
- *Special Scientific Report—Fisheries* 22
- *Technical Report* 24

Technical Memorandum Series 28
- Alaska Region 28
- Atlantic Estuarine Fisheries Center 28
- Auke Bay Laboratory 28
- Northeast Fisheries Center 29
- Northwest and Alaska Fisheries Center 30
- National Marine Fisheries Service Headquarters 33
- Northwest Region 33
- Southeast Fisheries Center 34
- Southeast Region 38
- Southwest Fisheries Center 38
- Southwest Region 40

Author Index 41

Subject Index 63

Fisheries Publication Index, 1980-85 Technical Memoradum Index, 1972-85

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ABSTRACT

The following series of fishery publications produced in calendar years 1980-85 by the Scientific Publications Office of the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), are listed numerically and indexed by author and subject: *Circular*, *Fishery Bulletin*, *Marine Fisheries Review*, *Special Scientific Report—Fisheries*, and *Technical Report NMFS*. Also included is an alphanumeric listing of the *NOAA Technical Memorandum NMFS* series published in calendar years 1972-85 by NMFS regional offices and fisheries centers. Authors and subjects for the Memoradum series are indexed with the other publication series.

INTRODUCTION

This index includes those publication series produced by the Scientific Publications Office of the National Marine Fisheries Service, NOAA, and issued from 1980 through 1985. It also includes the first complete listing of the NOAA Technical Memorandum NMFS Series issued by NMFS regional offices, laboratories, and fisheries centers from 1972 to 1985. The index includes a list of each publication series in numerical order and alphabetical indexes of authors and subjects.

This index is a continuation of the following: *Fishery Publication Index, 1975-79*, NOAA Technical Report NMFS Circular 437; *Fishery Publication Index, 1965-74*, NOAA Technical Report NMFS Circular 400; *Fishery Publication Index 1955-64*, U.S. Fish and Wildlife Service Circular 296; *Fishery Publication Index 1920-54*, U.S. Fish and Wildlife Service Circular 36; and *Publications of the United States Bureau of Fisheries 1871-1940*, U.S. Fish and Wildlife Service Special Scientific Report—Fisheries 284.

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Circular

The *Circular* series continues a series begun in 1941 and includes semitechnical publications of general and regional interest intended to aid conservation and management. In 1983 this subcategory of technical reports was merged with the *Special Scientific Report—Fisheries* series into the *NOAA Technical Report NMFS* series; *Circular* 451 was the last one issued.

430 Guide to identification of some sculpin (Cottidae) larvae from marine and brackish waters off Oregon and adjacent areas in the northeast Pacific, by **Sally L. Richardson and Betsy B. Washington**. January 1980, 56 p.

431 Guide to some trawl-caught marine fishes from Maine to Cape Hatteras, North Carolina, by **Donald D. Flescher**. March 1980, 34 p.

432 Synopsis of biological data on bonitos of the genus *Sarda*, by **Howard O. Yoshida**. May 1980, 50 p.

433 Synopsis of biological data on striped bass, *Morone saxatilis* (Walbaum), by **Eileen M. Setzler, Walter R. Boynton, Kathryn V. Wood, Henry H. Zion, Lawrence Lubbers, Nancy K. Mountford, Phyllis Frere, Luther Tucker, and Joseph A. Mihursky**. June 1980, 69 p.

434 Osteology, phylogeny, and higher classification of the fishes of the order Plectognathi (Tetraodontiformes), by **James C. Tyler**. October 1980, 422 p.

435 Field guide to fishes commonly taken in longline operations in the western north Atlantic Ocean, by **Joseph L. Russo**. January 1981, 51 p.

436 Synopsis of biological data on frigate tuna, *Auxis thazard*, and bullet tuna, *A. rochei*, by **Richard N. Uchida**. January 1981, 63 p.

437 Fishery Publications Index, 1975-79, by **Lee C. Thorson**. May 1981, 117 p.

438 Marine flora and fauna of the northeastern United States. Scleractinia, by **Stephen D. Cairns**. July 1981, 15 p.

439 Marine flora and fauna of the northeastern United States. Protozoa: Sarcodina: Benthic Foraminifera, by **Ruth Todd and Doris Low**. June 1981, 51 p.

440 Marine flora and fauna of the northeastern United States. Turbellaria: Acoela and Nemertodermatida, by **Louise F. Bush**. July 1981, 71 p.

441 Synopsis of the biology of the swordfish, *Xiphias gladius* Linnaeus, by **B. J. Palko, G. L. Beardsley, and W. J. Richards**. November 1981, 21 p.

442 Proceedings of the sixth U.S.-Japan meeting on aquaculture, Santa Barbara, California, August 27-28, 1977, by **Carl J. Sindermann** (editor). March 1982, 66 p.

- 1-5 Information on the culture of phytoplankton for aquacultural needs in Japan, by **Yunosuke Saito**.
- 7-12 Recent problems of nori (*Porphyra* spp.) culture in Japan, by **Hitoshi Kito**.
- 13-17 The present status of brown algae culture in Japan, by **Yunosuke Saito**.
- 19-24 The use of phytoplankton for aquaculture needs—a status report, by **William N. Shaw**.
- 25-66 Seaweed cultivation: A review, by **Arthur C. Mathieson**.

443 Synopsis of the biological data on dolphin-fishes, *Coryphaena hippurus* Linnaeus and *Coryphaena equiselis* Linnaeus, by **Barbara Jayne Palko, Grant L. Beardsley, and William J. Richards**. April 1982, 28 p.

444 Whales, dolphins, and porpoises of the eastern North Pacific and adjacent Arctic waters, a guide to their identification, by **Stephen Leatherwood, Randall R. Reeves, William F. Perrin, and William E. Evans**, with Appendix A on Tagging by **Larry Hobbs**. July 1982, 245 p.

445 Sharks of the genus *Carcharhinus*, by **J. A. F. Garrick**. May 1982, 194 p.

446 Marine flora and fauna of the northeastern United States. Lichens (Ascomycetes) of the intertidal region, by **Ronald M. Taylor**. August 1982, 26 p.

447 Proceedings of the eighth U.S.-Japan meeting on aquaculture at Bellingham, Washington, October 17-18, 1979, Under the Aquaculture Panel, U.S.-Japan Cooperative Program in Natural Resources (UJNR), by **William N. Shaw** (editor). November 1982, 25 p.

- 1 Joint statement of the UJNR Aquaculture Panel, October 18, 1979, Bellingham, Washington, by **William N. Shaw and Shigekatsu Sato**.
- 3-5 Freshwater finfish culture in Japan, by **Shigeru Arai**.
- 7-13 Freshwater development and smoltification in coho salmon from the Columbia River, by **Leroy C. Folmar, Walton W. Dickhoff, Waldo S. Zaugg, and Conrad V. W. Mahnken**.
- 15-19 The use of soybean meal in trout and salmon diets, by **Ronald W. Hardy**.
- 21-22 Freshwater aspects of anadromous salmonid enhancement, by **Rowan W. Gould**.
- 23-25 Catfish aquaculture in the United States, by **Harry K. Dupree**.

448 Synopsis of biological data on the grunts *Haemulon aurolineatum* and *H. plumieri* (Pisces: Haemulidae), by **George H. Darcy**. February 1983, 37 p.

449 Synopsis of biological data on the pigfish, *Orthopristis chrysoptera* (Pisces: Haemulidae), by **George H. Darcy**. March 1983, 23 p.

450 The utility of developmental osteology in taxonomic and systematic studies of teleost larvae: A review, by **Jean R. Dunn**. June 1983, 19 p.

451 Synopsis of biological data on skipjack tuna, *Katsuwonus pelamis*, by **Walter M. Matsumoto, Robert A. Skillman, and Andrew E. Dizon**. January 1984, 92 p.

The *Fishery Bulletin* contains original research reports and technical notes on investigations in fishery science, engineering, and economics. First established as the *Bulletin of the U.S. Fish Commission* in 1881, this series became the *Bulletin of the Bureau of Fisheries* in 1904 and the *Fishery Bulletin of the Fish and Wildlife Service* in 1941. Separates were issued as documents through volume 46; beginning with volume 47 in 1931 and continuing through volume 62 in 1963, each separate appeared as a numbered bulletin. Starting with volume 63 in 1963, papers were bound together in a single issue of the bulletin instead of being issued individually. In January 1972, beginning with volume 70, number 1, the *Fishery Bulletin* became a periodical, issued quarterly.

Vol. 78, no. 1, 1980

1-12 Life history patterns in marine fishes and their consequences for fisheries management, by **Peter B. Adams**.

13-34 Species of *Munidopsis* (Crustacea, Galatheidae) occurring off Oregon and in adjacent waters, by **Julie W. Ambler**.

35-50 Using Markov decision models and related techniques for purposes other than simple optimization: Analyzing the consequences of policy alternatives on the management of salmon runs, by **Roy Mendelssohn**.

51-58 Organochlorine residues in fishes from the northwest Atlantic Ocean and Gulf of Mexico, by **Virginia F. Stout**.

59-87 Systematics and distribution of ceratioid anglerfishes of the family Melanocetidae with the description of a new species from the eastern North Pacific Ocean, by **Theodore W. Pietsch and John P. Van Duzer**.

89-101 Early life history of Pacific mackerel, *Scomber japonicus*, by **John R. Hunter and Carol A. Kimbrell**.

103-108 Spawning and fecundity of Atlantic mackerel, *Scomber scombrus*, in the Middle Atlantic Bight, by **Wallace W. Morse**.

109-117 Respiration and depth control as possible reasons for swimming of northern anchovy, *Engraulis mordax*, yolk-sac larvae, by **Daniel Weihs**.

119-136 Descriptions of larval silver perch, *Bairdiella chrysoura*, banded drum, *Larimus fasciatus*, and star drum, *Stellifer lanceolatus* (Sciaenidae), by **Howard Powles**.

137-146 Reproductive biology of the vermilion snapper, *Rhomboplites aurorubens*, from North Carolina and South Carolina, by **Churchill B. Grimes and Gene R. Huntsman**.

147-158 Observations on early life stages of Atlantic tomcod, *Microgadus tomcod*, by **R. H. Peterson, P. H. Johansen, and J. L. Metcalfe**.

159-163 Observations of sea otters digging for clams at Monterey Harbor, California, by **Anson H. Hines and Thomas R. Loughlin**.

163-166 Effect of zinc on fin regeneration in the mummichog, *Fundulus heteroclitus*, and its interaction with methylmercury, by **Peddrick Weis and Judith Shulman Weis**.

167-169 Southern distribution of the Atlantic whitesided dolphin, *Lagenorhynchus acutus*, in the western North Atlantic, by **Salvatore A. Testaverde and James G. Mead**.

169-171 Additional records of the sculpin *Psychrolutes phrictus* in the eastern Bering Sea and off Oregon, by **Ann C. Matarese and David L. Stein**.

171-177 A recurrent mass stranding of the false killer whale, *Pseudorca crassidens*, in Florida, by **Daniel K. Odell, Edward D. Asper, Joe Baucom, and Lanny H. Cornell**.

177-179 Occurrence of the finetooth shark, *Carcharhinus isodon*, off Dauphin Island, Alabama, by **Steven Branstetter and Robert L. Shipp**.

179-185 Shedding rates of plastic and metal dart tags from Atlantic bluefin tuna, *Thunnus thynnus*, by **Raymond E. Baglin, Jr., Mark I. Farber, William H. Lenarz, and John M. Mason, Jr.**

185-190 Influence of Little Goose Dam on upstream movements of adult chinook salmon, *Oncorhynchus tshawytscha*, by **James M. Haynes and Robert H. Gray**.

190-195 Maturity, spawning, and fecundity of Atlantic croaker, *Micropogonias undulatus*, occurring north of Cape Hatteras, North Carolina, by **Wallace W. Morse**.

196-198 Comparison of sampling devices for the juvenile blue crab, *Callinectes sapidus*, by **Robert E. Miller, Douglas W. Campbell, and Pamela J. Lunsford**.

Vol. 78, no. 2, 1980

201-249 A survey of ciguatera at Enewetak and Bikini, Marshall Islands, with notes on the systematics and food habits of ciguatoxic fishes, by **John E. Randall**.

251-265 *Callinectes* (Decapoda: Portunidae) larvae in the Middle Atlantic Bight, 1975-77, by **Peter O. Smyth**.

267-276 An analysis of the United States demand for fish meal, by **D. D. Huppert**.

277-312 Development and structure of fins and fin supports in dolphin fishes *Coryphaena hippurus* and *Coryphaena equiselis* (Coryphaenidae), by **Thomas Potthoff**.

313-335 Larval development of *Euphausia eximia* (Crustacea: Euphausiacea) with notes on its vertical distribution and morphological divergence between populations, by **Margaret D. Knight**.

337-352 Feeding ecology of *Lagodon rhomboides* (Pisces: Sparidae): Variation and functional responses, by **Allan W. Stoner**.

353-360 Observations on a mass stranding of spinner dolphin, *Stenella longirostris*, from the west coast of Florida, by **James G. Mead, Daniel K. Odell, Randall S. Wells, and Michael D. Scott**.

361-377 Annual variability of reef-fish assemblages in kelp forests off Santa Barbara, California, by **Alfred W. Ebeling, Ralph J. Larson, William S. Alevizon, and Richard N. Bray**.

379-399 Ceratioid anglerfishes of the Philippine Archipelago, with descriptions of five new species, by **Theodore W. Pietsch and Jeffrey A. Seigel**.

401-417 Eggs and larvae of butter sole, *Isopsetta isolepis* (Pleuronectidae), off Oregon and Washington, by **Sally L. Richardson, Jean R. Dunn, and Nancy Anne Naplin**.

419-436 Retention of three taxa of postlarval fishes in an intensively flushed tidal estuary, Cape Fear River, North Carolina, by **Michael P. Weinstein, Sidney L. Weiss, Ronald G. Hodson, and Lawrence R. Gerry**.

437-454 Relationships between wave disturbance and zonation of benthic invertebrate communities along a subtidal high-energy beach in Monterey Bay, California, by **John S. Oliver, Peter N. Slattery, Larry W. Hulberg, and James W. Nybakken**.

455-464 Daily time of spawning of 12 fishes in the Peconic Bays, New York, by **Steven P. Ferraro**.

465-473 An improved method to analyze trimethylamine in fish and the interference of ammonia and dimethylamine, by **Fern A. Bullard and Jeff Collins**.

475-489 Percentage of starving northern anchovy, *Engraulis mordax*, larvae in the sea as estimated by histological methods, by **Charles P. O'Connell**.

491-505 Transportation of chinook salmon, *Oncorhynchus tshawytscha*, and steelhead, *Salmo gairdneri*, smolts in the Columbia River and effects on adult returns, by **Wesley J. Ebel**.

507-528 Is ovulation in dolphins, *Stenella longirostris* and *Stenella attenuata*, always copulation-induced?, by **K. Benirschke, Mary L. Johnson, and Rolf J. Benirschke**.

529-534 A large, opening-closing midwater trawl for sampling oceanic nekton, and comparison of catches with an Isaacs-Kidd midwater trawl, by **William G. Pearcy**.

535-537 Passive behavior by the spotted dolphin, *Stenella attenuata*, in tuna purse seine nets, by **James M. Coe and Warren E. Stuntz**.

538-541 Effects of large predators on the field culture of the hard clam, *Mercenaria mercenaria*, by **John N. Kraeuter and Michael Castagna**.

541-544 A direct method for estimating northern anchovy, *Engraulis mordax*, spawning biomass, by **Keith Parker**.

544-549 Food of the harbor seal, *Phoca vitulina richardsi*, in the Gulf of Alaska, by **Kenneth W. Pitcher**.

549-554 Production and growth of subyearling coho salmon, *Oncorhychus kisutch*, chinook salmon, *Oncorhynchus tshawytscha*, and steelhead, *Salmo gairdneri*, in Orwell Brook, tributary of Salmon River, New York, by **James H. Johnson**.

Vol. 78, no. 3, 1980

555-578 A multistage recruitment process in laboratory fish populations: Implications for models of fish population dynamics, by **David G. Hankin**.

579-591 Distribution and abundance of *Halobates* species (Insecta: Heteroptera) in the eastern tropical Pacific, by **Lanna Cheng and Eric Shulenberger**.

593-601 Occurrence, movements, and distribution of bottlenose dolphin, *Tursiops truncatus*, in southern Texas, by **Susan H. Shane**.

603-618 Reproduction of northern anchovy, *Engraulis mordax*, off Oregon and Washington, by **Joanne Lyczkowski Laroche and Sally L. Richardson**.

619-640 Diets of fourteen species of vertically migrating mesopelagic fishes in Hawaiian waters, by **Thomas A. Clarke**.

641-648 Survival, size, and emergence of pink salmon, *Oncorhynchus gorbuscha*, alevins after short- and long-term exposures to ammonia, by **Stanley D. Rice and Jack E. Bailey**.

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659-674 Some statistical considerations of the design of trawl surveys for rockfish (Scorpaenidae), by **William H. Lenarz and Peter B. Adams**.

675-683 Effects of copper on early life history stages of northern anchovy, *Engraulis mordax*, by **D. W. Rice, Jr., F. L. Harrison, and A. Jearld, Jr.**

685-692 Changes in body measurements of larval northern anchovy, *Engraulis mordax*, and other fishes due to handling and preservation, by **Gail H. Theilacker**.

693-700 Aspects of larval ecology of *Squilla empusa* (Crustacea, Stomatopoda) in Chesapeake Bay, by **Steven G. Morgan**.

701-714 Egg and larval development of the spot, *Leiostomus xanthurus* (Sciaenidae), by **Allyn B. Powell and Herbert R. Gordy**.

715-730 Bomolochid copepods parasitic on the eyes of Indo-West Pacific clupeid fishes, by **Roger Cressey and Hillary Boyle Cressey**.

731-739 Temperature effects on growth and yolk utilization in yellowtail flounder, *Limanda ferruginea*, yolk-sac larvae, by **W. Huntting Howell**.

741-757 Oxygen consumption and hemolymph osmolality of brown shrimp, *Penaeus aztecus*, by **James M. Bishop, James G. Gosselink, and James H. Stone**.

759-770 Diel and seasonal variation in abundance and diversity of shallow-water fish populations in Morro Bay, California, by **Michael H. Horn**.

771-780 Movements of tagged American lobster, *Homarus americanus*, off Rhode Island, by **Michael J. Fogarty, David V. D. Borden, and Howard J. Russell**.

781-788 Factors controlling growth and survival of cultured spot prawn, *Pandalus platyceros*, in Puget Sound, Washington, by **John E. Rensel and Earl F. Prentice**.

789-791 Rearing container size affects morphology and nutritional condition of larval jack mackerel, *Trachurus symmetricus*, by **Gail H. Theilacker**.

791-796 Effectivencess of metering wheels for measurement of area sampled by beam trawls, by **Robert S. Carney and Andrew G. Carey, Jr.**

797-798 Stomach contents and feces as indicators of harbor seal, *Phoca vitulina*, foods in the Gulf of Alaska, by **Kenneth W. Pitcher**.

799-805 The 1978 spring recreational catch of Atlantic mackerel, *Scomber scombrus*, off the Middle Atlantic region, by **Darryl J. Christensen and Walter J. Clifford**.

805-808 Size and possible origin of sailfish, *Istiophorus platypterus*, from the eastern Atlantic Ocean, by **Grant L. Beardsley**.

809-811 Ammonia concentrations in pink salmon, *Oncorhynchus gorbuscha*, redds of Sashin Creek, southeastern Alaska, by **Stanley D. Rice and Jack E. Bailey**.

811-816 Egg cannibalism in the northern anchovy, *Engraulis mordax*, by **John R. Hunter and Carol A. Kimbrell**.

816-821 Depth distribution and seasonal and diel movements of ratfish, *Hydrolagus colliei*, in Puget Sound, Washington, by **Thomas P. Quinn, Bruce S. Miller, and R. Craig Wingert**.

821-826 Detection of petroleum hydrocarbons by the Dungeness crab, *Cancer magister*, by **Walter H. Pearson, Peter C. Sugarman, Dana L. Woodruff, J. W. Blaylock, and Bori L. Olla**.

Vol. 78, no. 4, 1980

829-841 Influence of water currents and zooplankton densities on daily foraging movements of blacksmith, *Chromis punctipinnis*, a planktivorous reef fish, by **Richard N. Bray**.

843-853 Estimated initial population size of the Bering Sea stock of bowhead whale, *Balaena mysticetus*: An iterative method, by **Jeffrey M. Breiwick, Edward D. Mitchell, and Douglas G. Chapman**.

855-876 Spawning biomass and early life of northern anchovy, *Engraulis mordax*, in the northern subpopulation off Oregon and Washington, by **Sally L. Richardson**.

877-886 Voluntary swimming speeds and respiration rates of a filter-feeding planktivore, the Atlantic menhaden, *Brevoortia tyrannus* (Pisces: Clupeidae), by **Ann G. Durbin, Edward G. Durbin, Peter G. Verity, and Thomas J. Smayda**.

887-896 Using Box-Jenkins models to forecast fishery dynamics: Identification, estimation, and checking, by **Roy Mendelssohn**.

897-909 Development of larval smooth flounder, *Liopsetta putnami*, with a redescription of development of winter flounder, *Pseudopleuronectes americanus* (Family Pleuronectidae), by **Wayne A. Laroche**.

911-922 Seasonality of fishes occupying a surf zone habitat in the northern Gulf of Mexico, by **Timothy Modde and Stephen T. Ross**.

923-940 Larval development of Pacific tomcod, *Microgadus proximus*, in the northeast Pacific Ocean with comparative notes on larvae of walleye pollock, *Theragra chalcogramma*, and Pacific cod, *Gadus macrocephalus* (Gadidae), by **Ann C. Matarese, Sally L. Richardson, and Jean R. Dunn**.

941-945 Predation by sharks on pinnipeds at the Farallon Islands, by **David G. Ainley, Craig S. Strong, Harriet R. Huber, T. James Lewis, and Stephen H. Morrell**.

945-947 In situ observations on reproductive behavior of the long-finned squid, *Loligo pealei*, by **Carolyn A. Griswold and Jerome Prezioso**.

947-951 Spawning and sexual maturity of gulf menhaden, *Brevoortia patronus*, by **Robert M. Lewis and Charles M. Roithmayr**.

951-959 Food of the Pacific white-sided dolphin, *Lagenorhynchus obliquidens*, Dall's porpoise, *Phocoenoides dalli*, and northern fur seal, *Callorhinus ursinus*, off California and Washington, by **Richard K. Stroud, Clifford H. Fiscus, and Hiroshi Kajimura**.

959-964 Spawn and larvae of the Pacific sandfish, *Trichodon trichodon*, by **Jeffrey B. Marliave**.

965-968 A radiologic method for examination of the gastrointestinal tract in the Atlantic ridley, *Lepidochelys kempi*, and loggerhead, *Caretta caretta*, marine turtles, by **G. L. McLellan and J. K. Leong**.

968-973 Summer food of Pacific cod, *Gadus macrocephalus*, in coastal waters of southeastern Alaska, by **David M. Clausen**.

973-977 Use of Griffin's yield model for the Gulf of Mexico shrimp fishery, by **Arvind Khilnani**.

977-978 Seasonal spawning cycle of the Pacific butterfish, *Peprilus simillimus* (Stromateidae), by **Stephen R. Goldberg**.

979-984 Effects of injuries on spiny lobster, *Panulirus argus*, and implications for fishery management, by **Gary E. Davis**.

Vol. 79, no. 1, 1981

1-30 Crepuscular and nocturnal activities of Californian nearshore fishes, with consideration of their scotopic visual pigments and the photic environment, by **Edmund S. Hobson, William N. McFarland, and James R. Chess**.

31-48 Respiration rates and low-oxygen tolerance limits in skipjack tuna, *Katsuwonus pelamis*, by **Reginald M. Gooding, William H. Neill, and Andrew E. Dizon**.

49-68 An analysis of catch and effort data from the U.S. recreational fishery for billfishes (Istiophoridae) in the western North Atlantic Ocean and Gulf of Mexico, 1971-78, by **Grant L. Beardsley and Ramon J. Conser**.

69-83 Western Atlantic hagfishes of the genus *Eptatretus* (Myxinidae) with description of two new species, by **Bo Fernholm and Carl L. Hubbs**.

85-94 Observations on distribution and life history of skipjack tuna, *Katsuwonus pelamis*, in Australian waters, by **Maurice Blackburn and D. L. Serventy**.

95-101 A method for growth curve comparisons, by **Russell F. Kappenman**.

103-121 Current knowledge of larvae of sculpins (Pisces: Cottidae and allies) in northeast Pacific genera with notes on intergeneric relationships, by **Sally L. Richardson**.

123-130 Growth and age structure of larval Atlantic herring, *Clupea harengus harengus*, in the Sheepscot River estuary, Maine, as determined by daily growth increments in otoliths, by **David W. Townsend and Joseph J. Graham**.

131-142 Feeding selectivity of schools of northern anchovy, *Engraulis mordax*, in the Southern California Bight, by **J. Anthony Koslow**.

143-150 Burst swimming performance of northern anchovy, *Engraulis mordax*, larvae, by **P. W. Webb and R. T. Corolla**.

151-162 Age and growth of skipjack tuna, *Katsuwonus pelamis*, and yellowfin tuna, *Thunnus albacares*, as indicated by daily growth increments of sagittae, by **James H. Uchiyama and Paul Struhsaker**.

163-170 Pelagic eggs and larvae of the deepsea sole, *Embassichthys bathybius* (Pisces: Pleuronectidae), with comments on generic affinities, by **Sally L. Richardson**.

171-176 Effects of swimming path curvature on the energetics of fish motion, by **Daniel Weihs**.

177-182 Description of Stage II zoeae of snow crab, *Chionoecetes bairdi*, (Oxyrhyncha, Majidae) from plankton of lower Cook Inlet, Alaska, by **Evan Haynes**.

182-184 Feeding rate of captive adult female northern fur seals, *Callorhinus ursinus*, by **Stephen Spotte and Gary Adams**.

185-187 Induced spawning of a tuna, *Euthynnus affinis*, by **Calvin M. Kaya, Andrew E. Dizon, and Sharon D. Hendrix**.

187-192 Trophic importance of some marine gadids in northern Alaska and their body-otolith size relationships, by **Kathryn J. Frost and Lloyd F. Lowry**.

192-198 Carolinian records for American lobster, *Homarus americanus*, and tropical swimming crab, *Callinectes bocourti*. Postulated means of dispersal, by **Austin B. Williams and David McN. Williams**.

198-200 Mortalities of Atlantic herring, *Clupea h. harengus*, smooth flounder, *Liopsetta putnami*, and rainbow smelt, *Osmerus mordax*, larvae exposed to acute thermal shock, by **Seth L. Barker, David W. Townsend, and John S. Hacunda**.

200-206 Food of 10 species of northwest Atlantic juvenile groundfish, by **Ray E. Bowman**.

207-211 Difference in sex ratios of the anadromous alewife, *Alosa pseudoharengus*, between the top and bottom of a fishway at Damariscotta Lake, Maine, by **David A. Libby**.

211-212 Proximate composition and nutritive value of some important food fishes from the Arabian Gulf, by **Manal M. Al-Judaimi, A. K. Jafri, and K. A. George**.

Vol. 79, no. 2, 1981

215-230 The spawning energetics of female northern anchovy, *Engraulis mordax*, by **J. Roe Hunter and Roderick Leong**.

231-257 Development of larvae and juveniles of the rockfishes *Sebastes entomelas* and *S. zacentrus* (Family Scorpaenidae) and occurrence off Oregon, with notes on head spines of *S. mystinus*, *S. flavidus*, and *S. melanops*, by **Wayne A. Laroche and Sally L. Richardson**.

259-269 Contribution to the life history of the deep-sea king crab, *Lithodes couesi*, in the Gulf of Alaska, by **David A. Somerton**.

271-276 The effect of the bottom on the fast start of flatfish *Citharichthys stigmaeus*, by **P. W. Webb**.

277-292 Daily patterns in the activities of swordfish, *Xiphias gladius*, observed by acoustic telemetry, by **Francis G. Carey and Bruce H. Robison**.

293-302 Growth rates of North Pacific albacore, *Thunnus alalunga*, based on tag returns, by **R. Michael Laurs and Jerry A. Wetherall**.

303-314 Economic feasibility of domestic groundfish harvest from western Alaska waters: A comparison of vessel types, fishing strategies, and processor locations, by **C. M. Lynde**.

315-323 A stochastic model for the size of fish schools, by **James Jay Anderson**.

325-335 Recruitment and exploitation of gulf menhaden, *Brevoortia patronus*, by **Dean W. Ahrenholz**.

337-345 Natural stable carbon isotope tag traces Texas shrimp migrations, by **Brian Fry**.

347-349 Annual reproduction, dependency period, and apparent gestation period in two Californian sea otters, *Enhydra lutris*, by **Thomas R. Loughlin, Jack A. Ames, and Judson E. Vandevere**.

349-352 Mass mortality of female Dungeness crab, *Cancer magister*, on the southern Washington coast, by **Bradley G. Stevens and David A. Armstrong**.

353-356 Fishes new to the eastern Bering Sea, by **Mamoru Yabe, Daniel M. Cohen, Kiyoshi Wakabayashi, and Tomio Iwamoto**.

356-360 Schooling of the scalloped hammerhead shark, *Sphyrna lewini*, in the Gulf of California, by **A. Peter Klimley and Donald R. Nelson**.

360 Cleaning symbiosis between topsmelt, *Atherinops affinis*, and gray whale, *Eschrichtius robustus*, in Laguna San Ignacio, Baja California Sur, Mexico, by **Steven L. Swartz**.

360-367 Morphological features of the otoliths of the sailfish, *Istiophorus platypterus*, useful in age determination, by **Richard L. Radtke and J. M. Dean**.

367-370 Diel and seasonal movements of white sturgeon, *Acipenser transmontanus*, in the mid-Columbia River, by **James M. Haynes and Robert H. Gray**.

370-376 Feeding periodicity and diel variation in diet composition of subyearling coho salmon, *Oncorhynchus kisutch*, and steelhead, *Salmo gairdneri*, in a small stream during summer, by **James H. Johnson and Emily Z. Johnson**.

376-383 The occurrence of *Cirolana borealis* (Isopoda) in the hearts of sharks from Atlantic coastal waters of Florida, by **Patricia M. Bird**.

383-385 A flushing-coring device for collecting deep-burrowing infaunal bivalves in intertidal sand, by **Mark James Grussendorf**.

Vol. 79, no. 3, 1981

387-419 The osteology and relationships of the anglerfish genus *Tetrabrachium* with comments on lophiiform classification, by **Theodore W. Pietsch**.

421-440 Early zoeal stages of *Lebbeus polaris*, *Eualus suckleyi*, *E. fabricii*, *Spirontocaris arcuata*, *S. ochotensis*, and *Heptacarpus camtschaticus* (Crustacea, Decapoda, Caridea, Hippolytidae) and morphological characterization of zoeae of *Spirontocaris* and related genera, by **Evan Haynes**.

441-447 Feeding behavior and biology of young sandbar sharks, *Carcharhinus plumbeus* (Pisces, Carcharhinidae), in Chincoteague Bay, Virginia, by **Robert J. Medved and Joseph A. Marshall**.

449-458 Seasonal changes in soft-body component indices and energy reserves in the Atlantic deep-sea scallop, *Placopecten magellanicus*, by **William E. Robinson, William E. Wehling, M. Patricia Morse, and Guy C. McLeod**.

459-466 Effects of photoperiod and feeding on daily growth patterns in otoliths of juvenile *Tilapia nilotica*, by **Kuniaki Tanaka, Yasuo Mugiya, and Juro Yamada**.

467-472 Prey of the Steller sea lion, *Eumetopias jubatus*, in the Gulf of Alaska, by **Kenneth W. Pitcher**.

473-485 Offshore distribution of alewife, *Alosa pseudoharengus*, and blueback herring, *Alosa aestivalis*, along the Atlantic coast, by **Richard J. Neves**.

487-506 The complete larval development in the laboratory of *Micropanope sculptipes* (Crustacea, Decapoda, Xanthidae) with a comparison of larval characters in western Atlantic xanthid genera, by **Bryan L. Andryszak and Robert H. Gore**.

507-516 Establishment of nonindigenous runs of spring chinook salmon, *Oncorhynchus tshawytscha*, in the Wind River drainage of the Columbia River, 1955-63, by **Roy J. Wahle and Ed Chaney**.

517-532 Estimated growth of surface-schooling skipjack tuna, *Katsuwonus pelamis*, and yellowfin tuna, *Thunnus albacares*, from the Papua New Guinea region, by **J. W. J. Wánkowski**.

533-545 Growth, reproduction, and food habits of olive rockfish, *Sebastes serranoides*, off central California, by **Milton S. Love and William V. Westphal**.

547-560 Ovarian cycling frequency and batch fecundity in the queenfish, *Seriphus politus*: Attributes representative of serial spawning fishes, by **E. E. DeMartini and Robert K. Fountain**.

561-562 Seasonal spawning cycle of the black croaker, *Cheilotrema saturnum* (Sciaenidae), by **Stephen R. Goldberg**.
562-567 Population growth and censuses of the northern elephant seal, *Mirounga angustirostris*, on the California Channel Islands, 1958-78, by **George A. Antonelis, Jr., Stephen Leatherwood, and Daniel K. Odell**.
567-569 Growth characteristics of young-of-the-year walleye, *Stizostedion vitreum vitreum*, in John Day Reservoir on the Columbia River, 1979, by **Dean A. Brege**.
569-573 Effects of temperature and salinity on egg hatching and larval survival of red drum, *Sciaenops ocellata*, by **Joan Holt, Robert Godbout, and C. R. Arnold**.

Vol. 79, no. 4, 1981

575-599 Marine fisheries of Delaware, by **J. L. McHugh**.
601-616 Assimilation efficiency and nitrogen excretion of a filter-feeding planktivore, the Atlantic menhaden, *Brevoortia tyrannus* (Pisces: Clupeidae), by **Edward G. Durbin and Ann G. Durbin**.
617-640 Taxonomic status and biology of the bigeye thresher, *Alopias superciliosus*, by **S. H. Gruber and L. J. V. Compagno**.
641-647 Impairment of the chemosensory antennular flicking response in the Dungeness crab, *Cancer magister*, by petroleum hydrocarbons, by **Walter H. Pearson, Peter C. Sugarman, Dana L. Woodruff, and Bori L. Olla**.
649-669 Reproduction, movements, and population dynamics of the sand seatrout, *Cynoscion arenarius*, by **Philip A. Shlossman and Mark E. Chittenden, Jr.**
671-688 Movements and activities of the Atlantic bottlenose dolphin, *Tursiops truncatus*, near Sarasota, Florida, by **A. Blair Irvine, Michael D. Scott, Randall S. Wells, and John H. Kaufmann**.
689-703 Maximum yield estimates for the Pacific thread herring, *Opisthonema* spp., fishery in Costa Rica, by **David K. Stevenson and Francisco Carranza**.
705-726 Diel-depth distribution of summer ichthyoplankton in the Middle Atlantic Bight, by **Arthur W. Kendall, Jr., and N. A. Naplin**.
727-735 Responses of northern anchovy, *Engraulis mordax*, larvae to predation by a biting planktivore, *Amphiprion percula*, by **P. W. Webb**.
737-748 Gulf of Mexico shrimp production: A food web hypothesis, by **R. Warren Flint and Nancy N. Rabalais**.
749-763 Feeding selectivity of Dover sole, *Microstomus pacificus*, off Oregon, by **Wendy L. Gabriel and William G. Pearcy**.
765-774 Cephalopods in the diet of the swordfish, *Xiphias gladius*, from the Florida Straits, by **Ronald B. Toll and Steven C. Hess**.
775-788 Trophic relationships among demersal fishes in a coastal area of the Gulf of Maine, by **John S. Hacunda**.
789-794 The effects of photoperiod and temperature on laboratory growth of juvenile *Sebastes diploproa* and a comparison with growth in the field, by **George W. Boehlert**.
794-796 A correlation between annual catches of Dungeness crab, *Cancer magister*, along the west coast of North America and mean annual sunspot number, by **Milton S. Love and William V. Westphal**.
796-800 Fecundity of the American lobster, *Homarus americanus*, in Newfoundland waters, by **G. P. Ennis**.
800-806 Mortality of seabirds in high-seas salmon gill nets, by **David G. Ainley, Anthony R. DeGange, Linda L. Jones, and Richard J. Beach**.
806-812 Histochemical indications of liver glycogen in samples of emaciated and robust larvae of the northern anchovy, *Engraulis mordax*, by **Charles P. O'Connell and Pedro A. Paloma**.

Vol. 80, no. 1, 1982

1-19 Distribution, abundance, and age and growth of the tomtate, *Haemulon aurolineatum*, along the southeastern United States coast, by **Charles S. Manooch, III, and Charles A. Barans**.
21-34 Growth of the ocean quahog, *Arctica islandica*, in the Middle Atlantic Bight, by **Steven A. Murawski, John W. Ropes, and Fredric M. Serchuk**.
35-73 Larval development of *Citharichthys cornutus*, *C. gymnorhinus*, *C. spilopterus*, and *Etropus crossotus* (Bothidae), with notes on larval occurrence, by **John W. Tucker, Jr.**
75-91 Avoidance of towed nets by the euphausiid *Nematoscelis megalops*, by **P. H. Wiebe, S. H. Boyd, B. M. Davis, and J. L. Cox**.
93-104 Age and growth of a pleuronectid, *Parophrys vetulus*, during the pelagic larval period in Oregon coastal waters, by **Joanne Lyczkowski Laroche, Sally L. Richardson, and Andrew A. Rosenberg**.
105-119 Phenotypic differences among stocks of hatchery and wild coho salmon, *Oncorhynchus kisutch*, in Oregon, Washington, and California, by **R. C. Hjort and C. B. Schreck**.
121-134 Reproductive biology of western Atlantic bluefin tuna, by **Raymond E. Baglin, Jr.**
135-143 An evaluation of techniques for tagging small odontocete cetaceans, by **A. B. Irvine, R. S. Wells, and M. D. Scott**.
145-150 Offshore winter migration of the Atlantic silverside, *Menidia menidia*, by **David O. Conover and Steven A. Murawski**.
150-153 Growth during metamorphosis of English sole, *Parophrys vetulus*, by **Andrew A. Rosenberg and Joanne Lyczkowski Laroche**.
153-156 Observations on large white sharks, *Carcharodon carcharias*, off Long Island, New York, by **Harold L. Pratt, Jr., John G. Casey, and Robert B. Conklin**.
157 A note on the estimation of trimethylamine in fish muscle, by **D. M. Gibson**.
158-160 Snout dimorphism in white sturgeon, *Acipenser transmontanus*, from the Columbia River at Hanford, Washington, by **Dennis W. Crass and Robert H. Gray**.

Vol. 80, no. 2, 1982

161-186 Development of the vertebral column, fins and fin supports, branchiostegal rays, and squamation in the swordfish, *Xiphias gladius*, by **Thomas Potthoff and Sharon Kelley**.
187-199 Age and growth of larval Atlantic herring, *Clupea harengus* L., in the Gulf of Maine-Georges Bank region based on otolith growth increments, by **R. Gregory Lough, Michael Pennington, George R. Bolz, and Andrew A. Rosenberg**.
201-215 Increment formation in the otoliths of embryos, larvae, and juveniles of the mummichog, *Fundulus heteroclitus*, by **R. L. Radtke and J. M. Dean**.

217-243 The larval development of *Sergestes similis* Hansen (Crustacea, Decapoda, Sergestidae) reared in the laboratory, by **Margaret Knight and Makoto Omori**.

245-252 Growth of juvenile English sole, *Parophrys vetulus*, in estuarine and open coastal nursery grounds, by **Andrew A. Rosenberg**.

253-258 Population fluctuations of California sea lions and the Pacific whiting fishery off central California, by **David G. Ainley, Harriet R. Huber, and Kevin M. Bailey**.

259-268 Feeding behavior of the humpback whale, *Megaptera novaeangliae*, in the western North Atlantic, by **James H. W. Hain, Gary R. Carter, Scott D. Kraus, Charles A. Mayo, and Howard E. Winn**.

269-280 The interrelation of water quality, gill parasites, and gill pathology of some fishes from south Biscayne Bay, Florida, by **Renate H. Skinner**.

281-286 The effect of protease inhibitors on proteolysis in parasitized Pacific whiting, *Merluccius productus*, muscle, by **Ruth Miller and John Spinelli**.

287-304 Feeding habits of stomiatoid fishes from Hawaiian waters, by **Thomas A. Clarke**.

305-313 Description of larvae of the golden king crab, *Lithodes aequispina*, reared in the laboratory, by **Evan Haynes**.

315-326 The seasonal cycle of gonadal development in *Arctica islandica* from the southern New England shelf, by **Roger Mann**.

327-335 Regeneration of nitrogen by the nekton and its significance in the northwest Africa upwelling ecosystem, by **Terry E. Whitledge**.

337-343 The Atlantic sturgeon, *Acipenser oxyrhynchus*, in the Delaware River estuary, by **Harold M. Brundage, III, and Robert E. Meadows**.

345-355 Larval development of laboratory-reared rosylip sculpin, *Ascelichthys rhodorus* (Cottidae), by **Ann C. Matarese and Jeffrey B. Marliave**.

357-370 A beak key for eight eastern tropical Pacific cephalopod species with relationships between their beak dimensions and size, by **Gary A. Wolff**.

371-379 Movement and speed of dolphin schools responding to an approaching ship, by **D. Au and W. Perryman**.

381-388 The Strait of Georgia herring fishery: A case history of timely management aided by hydroacoustic surveys, by **Robert J. Trumble, Richard E. Thorne, and Norman A. Lemberg**.

389-392 Effects of long-term mercury exposure on hematology of striped bass, *Morone saxatilis*, by **Margaret A. Dawson**.

393-396 Rapid and spontaneous maturation, ovulation, and spawning of ova by newly captured skipjack tuna, *Katsuwonus pelamis*, by **Calvin M. Kaya, Andrew E. Dizon, Sharon D. Hendrix, Thomas K. Kazama, and Martina K. K. Queenth**.

396-401 Estimating and monitoring incidental dolphin mortality in the eastern tropical Pacific tuna purse seine fishery, by **Nancy C. H. Lo, Joseph E. Powers, and Bruce E. Wahlen**.

401-402 White Dall's porpoise sighted in the North Pacific, by **Gerald G. Joyce, John V. Rosapepe, and Junroku Ogasawara**.

Vol. 80, no. 3, 1982

403-417 Development of eggs and larvae of the white croaker, *Genyonemus lineatus* Ayres (Pisces: Sciaenidae), off the southern California coast, by **William Watson**.

419-433 Elemental composition (C, N, H) and energy in growing and starving larvae of *Hyas araneus* (Decapoda, Majidae), by **Klaus Anger and Ralph R. Dawirs**.

435-448 A multispecies analysis of the commercial deep-sea handline fishery in Hawaii, by **Stephen Ralston and Jeffrey J. Polovina**.

449-459 Development and application of an objective method for classifying long-finned squid, *Loligo pealei*, into sexual maturity stages, by **William K. Macy, III**.

461-474 Bioenergetics and growth of striped bass, *Morone saxatilis*, embryos and larvae, by **Maxwell B. Eldridge, Jeannette A. Whipple, and Michael J. Bowers**.

475-486 Stock and recruitment relationships in *Panulirus cygnus*, the commercial rock (spiny) lobster of Western Australia, by **G. R. Morgan, B. F. Phillips, and L. M. Joll**.

487-500 Spawning, age determination, longevity, and mortality of the silver seatrout, *Cynoscion nothus*, in the Gulf of Mexico, by **Douglas A. DeVries and Mark E. Chittenden, Jr.**

501-521 *Cyclograpsus integer* H. Milne Edwards, 1837 (Brachyura, Grapsidae): The complete larval development in the laboratory, with notes on larvae of the genus *Cyclograpsus*, by **Robert H. Gore and Liberta E. Scotto**.

523-540 Reproduction, movements, and population dynamics of the longspine porgy, *Stenotomus caprinus*, by **Paul Geoghegan and Mark E. Chittenden, Jr.**

541-554 Vertical migration and its effect on dispersal of penaeid shrimp larvae in the Gulf of Carpentaria, Australia, by **Peter C. Rothlisberg**.

555-565 Feeding ecology of 0-age flatfishes at a nursery ground on the Oregon coast, by **E. W. Hogue and A. G. Carey, Jr.**

567-574 Pressure sensitivity of Atlantic herring, *Clupea harengus* L., larvae, by **David R. Colby, Donald E. Hoss, and J. H. S. Blaxter**.

575-588 Feeding ecology of some fishes of the Antarctic Peninsula, by **Robert A. Daniels**.

589-598 The early life history of the Pacific hake, *Merluccius productus*, by **Kevin M. Bailey**.

599-610 The biology of the white perch, *Morone americana*, in the Hudson River estuary, by **D. W. Bath and J. M. O'Connor**.

611-619 Identifying climatic factors influencing commercial fish and shellfish landings in Maryland, by **Robert E. Ulanowicz, Mohammed Liaquat Ali, Alice Vivian, Donald R. Heinle, William A. Richkus, and J. Kevin Summers**.

621-630 Aerial surveys for manatees and dolphins in western peninsular Florida, by **A. Blair Irvine, John E. Caffin, and Howard I. Kochman**.

631-642 Effect of season and location on the relationship between zooplankton displacement volume and dry weight in the northwest Atlantic, by **Joseph Kane**.

642-644 Estimation of equilibrium settlement rates for benthic marine invertebrates: Its application to *Mya arenaria* (Mollusca: Pelecypoda), by **Diane J. Brousseau, Jenny A. Baglivo, and George E. Lang, Jr.**

644-648 Growth of juvenile red snapper, *Lutjanus campechanus*, in the northwestern Gulf of Mexico, by **Scott A. Holt and Connie R. Arnold**.

648-650 An association between a pelagic octopod, *Argonauta* sp. Linnaeus 1758, and aggregate salps, by **P. T. Banas, D. E. Smith, and D. C. Biggs**.

650-651 Migration of a juvenile wolf eel, *Anarrhichthys ocellatus*, from Port Hardy, British Columbia, to Willapa Bay, Washington, by **David R. Miller**.

Vol. 80, no. 4, 1982

655-686 Qualitative and quantitative nutrient requirements of fishes: A review, by **Mark R. Millikin**.

687-701 Analysis of double-tagging experiments, by **Jerry A. Wetherall**.

703-734 Four new species of squid (Oegopsida: *Enoploteuthis*) from the central Pacific and a description of adult *Enoploteuthis reticulata*, by **Lourdes Alvina Burgess**.

735-743 Life history studies of the sandworm, *Nereis virens* Sars, in the Sheepscot Estuary, Maine, by **Edwin P. Creaser and David A. Clifford**.

745-759 Diet overlap between Atlantic cod, *Gadus morhua*, silver hake, *Merluccius bilinearis*, and fifteen other northwest Atlantic finfish, by **Richard W. Langton**.

761-768 The relationship of winter temperature and spring landings of pink shrimp, *Penaeus duorarum*, in North Carolina, by **William F. Hettler and Alexander J. Chester**.

769-790 Seasonal abundance, composition, and productivity of the littoral fish assemblage in upper Newport Bay, California, by **Larry G. Allen**.

791-801 Cyclic covariation in the California king salmon, *Oncorhynchus tshawytscha*, silver salmon, *O. kisutch*, and Dungeness crab, *Cancer magister*, fisheries, by **Louis W. Botsford, Richard D. Methot, Jr., and James E. Wilen**.

803-812 Swimming kinematics of sharks, by **P. W. Webb and Raymond S. Keyes**.

813-825 Population biology of chum salmon, *Oncorhynchus keta*, from the Fraser River, British Columbia, by **Terry D. Beacham and Paul Starr**.

827-840 Trophic patterns among larvae of five species of sculpins (Family: Cottidae) in a Maine estuary, by **Joanne Lyczkowski Laroche**.

841-851 Food habits of juvenile salmon in the Oregon coastal zone, June 1979, by **William T. Peterson, Richard D. Brodeur, and William G. Pearcy**.

853-862 Spawning and larval development of the hogfish, *Lachnolaimus maximus* (Pisces: Labridae), by **Patrick L. Colin**.

863-874 Biology of the whitebone porgy, *Calamus leucosteus*, in the South Atlantic Bight, by **C. Wayne Waltz, William A. Roumillat, and Charles A. Wenner**.

875-880 Observations of right whales, *Eubalaena glacialis*, in Cape Cod waters, by **William A. Watkins and William E. Schevill**.

881-884 Fecundity of the widow rockfish, *Sebastes entomelas*, off the coast of Oregon, by **George W. Boehlert, W. H. Barss, and P. B. Lamberson**.

884-890 A comparative study of autochthonous bacterial flora on the gills of the blue crab, *Callinectes sapidus*, and its environment, by **John A. Babinchak, Daniel Goldmintz, and Gary P. Richards**.

891-895 White shark predation on pinnipeds in California coastal waters, by **Burney J. Le Boeuf, Marianne Riedman, and Raymond S. Keyes**.

895-902 Vertical stratification of three nearshore southern California larval fishes (*Engraulis mordax*, *Genyonemus lineatus*, and *Seriphus politus*), by **Robert E. Schlotterbeck and David W. Connally**.

902-905 Decrease in length at predominant ages during a spawning migration of the alewife, *Alosa pseudoharengus*, by **David A. Libby**.

906-907 Seasonal spawning cycle of the longfin sanddab, *Citharichthys xanthostigma* (Bothidae), by **Stephen R. Goldberg**.

907-909 Otter trawl sampling bias of the gill parasite, *Lironeca vulgaris* (Isopoda, Cymothoidae), from sanddab hosts, *Citharichthys* spp., by **Gary R. Robinson**.

Vol. 81, no. 1, 1983

1-13 Changes in size of three dolphin (*Stenella* spp.) populations in the eastern tropical Pacific, by **Tim D. Smith**.

15-22 Food habits of yellowtail flounder, *Limanda ferruginea* (Storer), from off the northeastern United States, by **Richard W. Langton**.

23-40 Development and distribution of the young of northern smoothtongue, *Leuroglossus schmidti* (Bathylagidae), in the northeast Pacific, with comments on the systematics of the genus *Leuroglossus* Gilbert, by **Jean R. Dunn**.

41-50 Delineation of tilefish, *Lopholatilus chamaeleonticeps*, stocks along the United States east coast and in the Gulf of Mexico, by **S. J. Katz, C. B. Grimes, and K. W. Able**.

51-60 Effects of behavioral interactions on the catchability of American lobster, *Homarus americanus*, and two species of Cancer crab, by **R. Anne Richards, J. Stanley Cobb, and Michael J. Fogarty**.

61-73 The reproductive biology of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae* (Richardson), by **Glenn R. Parsons**.

75-84 Variation in the growth rate of *Mya arenaria* and its relationship to the environment as analyzed through principal components analysis and the ω parameter of the von Bertalanffy equation, by **Richard S. Appeldoorn**.

85-90 Biochemical genetics of Pacific blue marlin, *Makaira nigricans*, from Hawaiian waters, by **James B. Shaklee, Richard W. Brill, and Robin Acerra**.

91-96 Stochastic age-frequency estimation using the von Bertalanffy growth equation, by **Norman W. Bartoo and Keith R. Parker**.

97-106 Age, growth, and mortality of king mackerel, *Scomberomorus cavalla*, from the southeastern United States, by **Allyn G. Johnson, William A. Fable, Jr., Mark L. Williams, and Lyman E. Barger**.

107-119 Review and analysis of the bluefin tuna, *Thunnus thynnus*, fishery in the eastern North Pacific Ocean, by **Doyle A. Hanan**.

121-132 Interactions between fur seal populations and fisheries in the Bering Sea, by **Gordon L. Swartzman and Robert T. Haar**.

133-141 Age, size, growth, and chemical composition of Atlantic menhaden, *Brevoortia tyrannus*, from Narragansett Bay, Rhode Island, by **Ann Gail Durbin, Edward G. Durbin, Thomas J. Smayda, and Peter G. Verity**.

143-148 Homing and fisheries contribution of marked coho salmon, *Oncorhynchus kisutch*, released at two Columbia River locations, by **Robert R. Vreeland and Roy J. Wahle**.
148-154 Movement patterns of bonefish, *Albula vulpes*, in Bahamian waters, by **Douglas E. Colton and William S. Alevizon**.
154-161 Analyses of feeding in two marine copepods from Santa Monica Bay, California, by **G. S. Kleppel and E. Manzanilla**.
161-164 Distribution, size relationships, and food habits of juvenile king-of-the-salmon, *Trachipterus altivelis*, caught off the Oregon coast, by **Jonathan M. Shenker**.
165-167 Notes on the marine life of the river lamprey, *Lampetra ayresi*, in Yaquina Bay, Oregon, and the Columbia River estuary, by **Carl E. Bond, Ting T. Kan, and Katherine W. Myers**.
168-175 An economic evaluation of the St. Lawrence River-eastern Lake Ontario bass fishery, by **Fredric C. Menz and Donald P. Wilton**.

Vol. 81, no. 2, 1983

177-199 Energy and nitrogen budgets for the Atlantic menhaden, *Brevoortia tyrannus* (Pisces: Clupeidae), a filter-feeding planktivore, by **Edward G. Durbin and Ann G. Durbin**.
201-225 Reproduction and embryonic development of the sand tiger shark, *Odontaspis taurus* (Rafinesque), by **R. Grant Gilmore, Jon W. Dodrill, and Patricia A. Linley**.
227-265 Copepods and scombrid fishes: A study in host-parasite relationships, by **Roger F. Cressey, Bruce B. Collette, and Joseph L. Russo**.
267-281 Population assessment of the gray whale, *Eschrichtius robustus*, from California shore censuses, 1967-80, by **Stephen B. Reilly, Dale W. Rice, and Allen A. Wolman**.
283-289 Mesopelagic fishes eaten by Fraser's dolphin, *Lagenodelphis hosei*, by **Bruce H. Robison and James E. Craddock**.
291-301 Abundance, movements, and feeding habits of harbor seals, *Phoca vitulina*, at Netarts and Tillamook Bays, Oregon, by **Robin R. Brown and Bruce R. Mate**.
303-321 Variability in median size and age at sexual maturity of Atlantic cod, *Gadus morhua*, on the Scotian Shelf in the northwest Atlantic Ocean, by **Terry D. Beacham**.
323-339 Morphology and development of hatchery-cultured American shad, *Alosa sapidissima* (Wilson), by **James R. Johnson and Joseph G. Loesch**.
341-355 Seasonal changes in the ovaries of adult yellowtail flounder, *Limanda ferruginea*, by **W. Huntting Howell**.
357-362 Size at maturity and fecundity of rock crabs, *Cancer irroratus*, from the Bay of Fundy and southwestern Nova Scotia, by **A. Campbell and M. D. Eagles**.
363-374 Long-term variations in the Southern Oscillation, El Niño, and Chilean subtropical rainfall, by **William H. Quinn and Victor T. Neal**.
375-387 Percent similarity: The prediction of bias, by **E. L. Venrick**.
389-396 Survey of polychlorinated biphenyls in selected finfish species from United States coastal waters, by **Donald F. Gadbois and Richard S. Maney**.
396-404 Foods of coastal fishes during brown shrimp, *Penaeus aztecus*, migration from Texas estuaries (June-July 1981), by **Regina Divita, Mischelle Creel, and Peter F. Sheridan**.
405-412 The occurrence of spot, *Leiostomus xanthurus*, and Atlantic croaker, *Micropogonias undulatus*, larvae in Onslow Bay and Newport River estuary, North Carolina, by **Robert M. Lewis and Mayo H. Judy**.
412-415 Survival and homing of juvenile coho salmon, *Oncorhynchus kisutch*, transported by barge, by **George T. McCabe, Jr., Clifford W. Long, and Steve L. Leek**.
415-420 Movement of sablefish, *Anoplopoma fimbria*, in the northeastern Pacific Ocean as determined by tagging experiments (1971-80), by **Vidar G. Wespestad, Kenneth Thorsen, and Sally A. Mizroch**.
420-425 Winter and altered spring movements of striped bass in the Savannah River, Georgia, by **Richard G. Dudley and T. Glenn McGahee**.
426-428 Intertidal feeding and refuging by cunners, *Tautogolabrus adspersus* (Labridae), by **F. G. Whoriskey, Jr.**
429-434 Relative efficiency of two clam rakes and their contrasting impacts on seagrass biomass, by **Charles H. Peterson, Henry C. Summerson, and Stephen R. Fegley**.
434-436 *Heterocarpus longirostris* MacGilchrist from the Northern Mariana Islands, by **Robert B. Moffitt**.

Vol. 81, no. 3, 1983

437-454 Stomach contents of silver hake, *Merluccius bilinearis*, and Atlantic cod, *Gadus morhua*, and estimation of their daily rations, by **E. G. Durbin, A. G. Durbin, R. W. Langton, and R. E. Bowman**.
455-472 Factors affecting the distribution, abundance, and survival of *Pandalus jordani* (Decapoda, Pandalidae) larvae off the Oregon coast, by **Peter C. Rothlisberg and Charles B. Miller**.
473-481 Effects of benzo(a)pyrene on the early development of California grunion, *Leuresthes tenuis* (Pisces, Atherinidae), by **Delaine L. Winkler, Keith L. Duncan, Jo Ellen Hose, and Harold W. Puffer**.
483-500 Simulation of the North Atlantic Ocean drift of *Anguilla leptocephali*, by **James H. Power and James D. McCleave**.
501-512 Walrus, *Odobenus rosmarus*, feeding in the Bering Sea: A benthic perspective, by **John S. Oliver, Peter N. Slattery, Edmund F. O'Connor, and Lloyd F. Lowry**.
513-522 A comparison of gray whale, *Eschrichtius robustus*, feeding in the Bering Sea and Baja California, by **John S. Oliver, Peter N. Slattery, Mark A. Silberstein, and Edmund F. O'Connor**.
523-535 Analyzing the width of daily otolith increments to age the Hawaiian snapper, *Pristipomoides filamentosus*, by **Stephen Ralston and Garret T. Miyamoto**.
537-552 Species associations and day-night variability of trawl-caught fishes from the inshore sponge-coral habitat, South Atlantic Bight, by **Charles A. Wenner**.
553-568 Reproductive biology of the blueline tilefish, *Caulolatilus microps*, off North Carolina and South Carolina, by **Jeffrey L. Ross and John V. Merriner**.
569-586 Temporal and spatial patterns of nearshore distribution and abundance of the pelagic fishes off San Onofre-Oceanside, California, by **Larry G. Allen and Edward E. DeMartini**.

587-597 Reproduction, growth, and other aspects of the biology of the gold spot herring, *Herklotsichthys quadrimaculatus* (Clupeidae), a recent introduction to Hawaii, by **Vern R. Williams and Thomas A. Clarke**.

599-611 Age, growth, and sexual maturity of Greenland halibut, *Reinhardtius hippoglossoides* (Walbaum), in the Canadian northwest Atlantic, by **W. R. Bowering**.

613-619 Power plant impact assessment: A simple fishery production model approach, by **Alec D. MacCall, Keith R. Parker, Ronald Leithiser, and Bill Jessee**.

621-628 The size at sexual maturity of blue king crab, *Paralithodes platypus*, in Alaska, by **David A. Somerton and Richard A. MacIntosh**.

629-636 Food habits of Pacific whiting, *Merluccius productus*, off the west coast of North America, 1967 and 1980, by **Patricia A. Livingston**.

637-642 Food of walleye pollock, *Theragra chalcogramma*, in an embayment of southeastern Alaska, by **David M. Clausen**.

643-647 Summer foods of Texas coastal fishes relative to age and habitat, by **Peter F. Sheridan and David L. Trimm**.

647-654 Life history of splittail (Cyprinidae: *Pogonichthys macrolepidotus*) in the Sacramento-San Joaquin estuary, by **Robert A. Daniels and Peter B. Moyle**.

654-660 Life history and exploitation of *Macrobrachium faustinum* in a tropical high-gradient river, by **Wayne Hunte and Robin Mahon**.

660-662 Incidental catch of harbor porpoise, *Phocoena phocoena* (L.), in herring weirs in Charlotte County, New Brunswick, Canada, by **G. J. D. Smith, A. J. Read, and D. E. Gaskin**.

663-666 A technique for tagging deepwater fish, by **C. B. Grimes, S. C. Turner, and K. W. Able**.

Vol. 81, no. 4, 1983

667-677 Biochemical genetic population structure of yellowfin sole, *Limanda aspera*, of the north Pacific Ocean and Bering Sea, by **W. Stewart Grant, Richard Bakkala, Fred M. Utter, David J. Teel, and Tokimasa Kobayashi**.

679-695 Yield per recruit models of some reef fishes of the U.S. South Atlantic Bight, by **Gene R. Huntsman, Charles S. Manooch III, and Churchill B. Grimes**.

697-708 Hard clam, *Mercenaria mercenaria*: Shell growth patterns in Chesapeake Bay, by **Lowell W. Fritz and Dexter S. Haven**.

709-721 Size, sex ratio, and recruitment in various fisheries of king mackerel, *Scomberomorus cavalla*, in the southeastern United States, by **Lee Trent, Roy O. Williams, Ronald G. Taylor, Carl H. Saloman, and Charles S. Manooch III**.

723-732 The estimation of a catch level which stabilizes the parental biomass of an exploited fish stock, by **J. Majkowski and J. Hampton**.

733-739 Aspects of reproduction of the blue mussel, *Mytilus edulis* (Pelecypoda: Mytilidae) in Long Island Sound, by **Diane J. Brousseau**.

741-750 Seasonal variation in survival of larval northern anchovy, *Engraulis mordax*, estimated from the age of distribution of juveniles, by **Richard D. Methot, Jr.**

751-763 Growth, mortality, and age/size structure of the fisheries for tilefish, *Lopholatilus chamaeleonticeps*, in the Middle Atlantic-southern New England region, by **S. C. Turner, C. B. Grimes, and K. W. Able**.

765-779 A mark-recapture test of annual periodicity of internal growth band deposition in shells of hard clams, *Mercenaria mercenaria*, from a population along the southeastern United States, by **C. H. Peterson, P. B. Duncan, H. C. Summerson, and G. W. Safrit, Jr.**

781-788 Early development of the longhorn sculpin, *Myoxocephalus octodecemspinosus*, by **William A. Walsh and William A. Lund, Jr.**

789-801 Fish and shrimp migrations in the northern Gulf of Mexico analyzed using stable C, N, and S isotope ratios, by **Brian Fry**.

803-813 Geographic and historic variations in growth of weakfish, *Cynoscion regalis*, in the Middle Atlantic Bight, by **Gary Shepherd and Churchill B. Grimes**.

815-826 Interrelationships between juvenile salmonids and nonsalmonid fish in the Columbia River Estuary, by **George T. McCabe, Jr., William D. Muir, Robert L. Emmett, and Joseph T. Durkin**.

827-836 Growth of larval Atlantic cod, *Gadus morhua*, and haddock, *Melanogrammus aeglefinus*, on Georges Bank, spring 1981, by **George R. Bolz and R. Gregory Lough**.

837-846 Distribution of fishes in seagrass meadows: Role of macrophyte biomass and species composition, by **Allan W. Stoner**.

847-854 Redescription of larvae of the pigfish, *Orthopristis chrysoptera* Linnaeus (Pisces, Haemulidae), by **William Watson**.

855-862 Coherence in zooplankton of a large northwest Atlantic ecosystem, by **K. Sherman, J. R. Green, J. R. Goulet, and L. Ejsymont**.

863-882 The mud crab, *Panopeus herbstii*, s.l. partition into six species (Decapoda: Xanthidae), by **Austin B. Williams**.

883-885 Electrophoretic analyses of hemocyanins from four species of mud crabs, genus *Panopeus*, with observations on the ecology of *P. obesus*, by **Bolling Sullivan, Katie Miller, Kathleen Singleton, Anthony G. Scheer, and Austin B. Williams**.

885-890 Mud crabs of the *Panopeus herbstii* H. M. Edw., s.l., complex in Alabama, U.S.A., by **Robert C. Reames and Austin B. Williams**.

890-894 Effect of temperature on rate of embryonic development of walleye pollock, *Theragra chalcogramma*, by **Evan B. Haynes and Steve E. Ignell**.

895-898 Helminth parasitism of three larval fishes in the northern Gulf of Mexico, by **John J. Govoni**.

898-903 Empirical use of longevity data to estimate mortality rates, by **John M. Hoenig**.

903-905 Growth of *Geryon quinquedens* (Brachyura: Geryonidae) juveniles in the laboratory, by **W. Van Heukelem, M. C. Christman, C. E. Epifanio, and S. D. Sulkin**.

906-909 Age and growth of dolphin, *Coryphaena hippurus*, as determined by growth rings in otoliths, by **Hazel A. Oxenford and Wayne Hunte**.

910-913 A comparison of aerial, shipboard, and land-based survey methodology for the harbor porpoise, *Phocoena phocoena*, by **Scott D. Kraus, James R. Gilbert, and John H. Prescott**.

913-916 Tolerance of five-day-old winter flounder, *Pseudopleuronectes americanus*, larvae to thermal shock, by **Norman Itzkowitz and J. R. Schubel**.

916-922 Movements of rockfish (*Sebastes*) tagged in northern Puget Sound, Washington, by **Stephen B. Mathews and Morris W. Barker**.

Vol. 82, No. 1, 1984

1-19 Documentation of annual growth lines in ocean quahogs, *Arctica islandica* Linné, by **John W. Ropes, Douglas S. Jones, Steven A. Murawski, Fredric M. Serchuk, and Ambrose Jearld, Jr.**

21-35 Food of silver hake, *Merluccius bilinearis*, by **Ray E. Bowman**.

37-53 Abundance and vertical distribution of fishes in a cobble-bottom kelp forest off San Onofre, California, by **Ralph J. Larson and Edward E. DeMartini**.

55-66 The invertebrate assemblage associated with the giant kelp, *Macrocystis pyrifera*, at Santa Catalina Island, California: a general description with emphasis on amphipods, copepods, mysids, and shrimps, by **James A. Coyer**.

67-76 Spring and summer prey of California sea lions, *Zalophus californianus*, at San Miguel Island, California, 1978-79, by **George A. Antonelis, Jr., Clifford H. Fiscus, and Robert L. DeLong**.

77-84 Larval development of the scup, *Stenotomus chrysops* (Pisces: Sparidae), by **Carolyn A. Griswold, and Thomas W. McKenney**.

85-95 Description of eggs, larvae, and early juveniles of gulf menhaden, *Brevoortia patronus*, and comparisons with Atlantic menhaden, *B. tyrannus*, and yellowfin menhaden, *B. smithi*, by **William F. Hettler**.

97-111 Distribution of ichthyoplankton off San Onofre, California, and methods for sampling very shallow coastal waters, by **Arthur M. Barnett, Andrew E. Jahn, Peter D. Sertic, and William Watson**.

113-120 Ring deposition in the otoliths of larval Pacific herring, *Clupea harengus pallasi*, by **Michael D. McGurk**.

121-139 Fishes, fish assemblages, and their seasonal movements in the lower Bay of Fundy and Passamaquoddy Bay, Canada, by **J. Stevenson MacDonald, Michael J. Dadswell, Ralph G. Appy, Gary D. Melvin, and David A. Methven**.

141-156 The detection and distribution of larval Arcto-Norwegian cod, *Gadus morhua*, food organisms by an in situ particle counter, by **S. Tilseth and B. Ellertsen**.

157-164 Effects of size and time of release on seaward migration of spring chinook salmon, *Oncorhynchus tshawytscha*, by **R. D. Ewing, C. E. Hart, C. A. Fustish, and Greg Concannon**.

165-177 Interactive effects of age and environmental modifiers on the production of daily growth increments in otoliths of plainfin midshipman, *Porichthys notatus*, by **Steven E. Campana**.

179-198 Aspects of the life history and fishery of the white croaker, *Genyonemus lineatus* (Sciaenidae), off California, by **Milton S. Love, Gerald E. McGowen, William Westphal, Robert J. Lavenberg, and Linda Martin**.

199-205 Feeding habits of blacksmith, *Chromis punctipinnis*, associated with a thermal outfall, by **Pamela A. Morris**.

207-225 Calibration of dental layers in seven captive Hawaiian spinner dolphins, *Stenella longirostris*, based on tetracycline labeling, by **Albert C. Myrick, Jr., Edward W. Shallenberger, Ingrid Kang, and David B. MacKay**.

227-235 Reproduction of the banded drum, *Larimus fasciatus*, in North Carolina, by **Steve W. Ross**.

237-242 Marking growth increments in otoliths of larval and juvenile fish by immersion in tetracycline to examine the rate of increment formation, by **P. D. Schmitt**.

242-244 Tag-recapture validation of molt and egg extrusion predictions based upon pleopod examination in the American lobster, *Homarus americanus*, by **G. P. Ennis**.

244-249 Comparison of physiological and functional size-maturity relationships in two Newfoundland populations of lobsters, *Homarus americanus*, by **G. P. Ennis**.

249-251 Conversions between total, fork, and standard lengths in 35 species of *Sebastes* from California, by **Tina Echeverria and William H. Lenarz**.

Vol. 82, No. 2, 1984

253-267 Size, age, sexual maturity, and sex ratio in ocean quahogs, *Arctica islandica* Linné, off Long Island, New York, by **John W. Ropes, Steven A. Murawski, and Fredric Serchuk**.

269-295 Food habits and dietary overlap of some shelf rockfishes (genus *Sebastes*) from the northeastern Pacific Ocean, by **Richard D. Brodeur and William G. Pearcy**.

295-313 Species associations and community composition of Middle Atlantic Bight continental shelf demersal fishes, by **J. A. Colvocoresses and J. A. Musick**.

315-324 Early zoeal stages of *Placetron wosnessenskii* and *Rhinolithodes wosnessenskii* (Decapoda, Anomura, Lithodidae) and review of lithodid larvae of the northern North Pacific Ocean, by **Evan B. Haynes**.

325-336 Selection of vegetated habitat by brown shrimp, *Penaeus aztecus*, in a Galveston Bay salt marsh, by **Roger J. Zimmerman, Thomas J. Minello, and Gilbert Zamora, Jr.**

337-363 Reproduction, movements, and population dynamics of the banded drum, *Larimus fasciatus*, in the Gulf of Mexico, by **Gary W. Standard and Mark E. Chittenden, Jr.**

365-373 Implications of investing under different economic conditions on the profitability of Gulf of Mexico shrimp vessels operating out of Texas, by **Ernest Tettey, Christopher Pardy, Wade Griffin, and A. Nelson Swartz**.

375-381 Quantitative and qualitative bacteriology of elasmobranch fish from the Gulf of Mexico, by **John D. Buck**.

383-389 Distribution and feeding of the horseshoe crab, *Limulus polyphemus*, on the continental shelf off New Jersey, by **Mark L. Botton and Harold H. Haskin**.

391-399 Diel variations in the feeding habits of Pacific salmon caught in gill nets during a 24-hour period in the Gulf of Alaska, by **W. Pearcy, T. Nishiyama, T. Fujii, and K. Masuda**.

401-410 Arctic char predation on sockeye salmon smolts at Little Togiak River, Alaska, by **Gregory T. Ruggerone and Donald E. Rogers**.

411-418 Feeding ecology of walleye, *Stizostedion vitreum vitreum*, in the mid-Columbia River, with emphasis on the interactions between walleye and juvenile anadromous fishes, by **Alec G. Maule and Howard F. Horton**.

418-426 Bathymetric distribution, spawning periodicity, sex ratios, and size compositions of the mantis shrimp, *Squilla empusa*, in the northwestern Gulf of Mexico, by **Mark D. Rockett, Gary W. Standard, and Mark E. Chittenden, Jr.**

427-434 Distribution, length-weight relationship, and length-frequency data of southern kingfish, *Menticirrhus americanus*, in Mississippi, by **Barbara J. Crowe**.

434-440 Scanning electron microscope evidence for yearly growth zones in giant bluefin tuna, *Thunnus thynnus*, otoliths from daily increments, by **Richard Radtke**.

440-442 Yearly changes in abundance of harbor seals, *Phoca vitulina*, at a winter haul-out site in Massachusetts, by **P. Michael Payne and David C. Schneider**.

443-445 Postovulatory follicle histology of the Pacific sardine, *Sardinops sagax*, from Peru, by **Stephen R. Goldberg, Victor Hugo Alarcon, and Jurgen Alheit**.

445-446 A note on spawning of the Pacific market squid, *Loligo opalescens* (Berry, 1911), in the Barkley Sound region, Vancouver Island, Canada, by **Ronald L. Shimek, David Fyfe, Leah Ramsey, Anne Bergey, Joel Elliott, and Stewart Guy**.

446-448 Arithmetic versus exponential calculation of mean biomass, by **Sheryan P. Epperly and Walter R. Nelson**.

Vol. 82, No. 3, 1984

449-453 Density-dependent searching time: implications in surplus-production models, by **Richard E. Condrey**.

455-467 Community and trophic organization of nekton utilizing shallow marsh habitats, York River, Virginia, by **Stephen M. Smith, James G. Hoff, Steven P. O'Neil, and Michael P. Weinstein**.

469-483 Distribution, abundance, and growth of juvenile Dungeness crabs, *Cancer magister*, in Grays Harbor estuary, Washington, by **Bradley G. Stevens and David A. Armstrong**.

485-492 Age, growth, and mortality of gray triggerfish, *Balistes capriscus*, from the northeastern Gulf of Mexico, by **Allyn G. Johnson and Carl H. Saloman**.

493-500 The effect of disturbance on harbor seal haul out patterns at Bolinas Lagoon, California, by **Sarah G. Allen, David G. Ainley, Gary W. Page, and Christine A. Ribic**.

501-511 Reproduction of weakfish, *Cynoscion regalis*, in the New York Bight and evidence for geographically specific life history characteristics, by **Gary R. Shepherd and Churchill B. Grimes**.

513-517 Field and laboratory observations on diurnal swim bladder inflation-deflation in larvae of gulf menhaden, *Brevoortia patronus*, by **D. E. Hoss and G. Phonlor**.

519-522 Comparison of American eel growth rates from tag returns and length-age analyses, by **Gene S. Helfman, Earl L. Bozeman, and Edward B. Brothers**.

523-528 Description of early stage zoeae of *Spirontocaris murdochi* (Decapoda, Hippolytidae) reared in the laboratory, by **Evan B. Haynes**.

529-530 Incidence of molting and spawning in the same season in female lobsters, *Homarus americanus*, by **G. P. Ennis**.

530-537 Parasites of olive rockfish, *Sebastes serranoides*, (Scorpaenidae) off central California, by **Milton S. Love, Kimberly Shriner, and Pamela Morris**.

537-541 Sensitivity of the population growth rate to changes in single life history parameters: its application to *Mya arenaria* (Mollusca: Pelecypoda), by **Diane J. Brousseau and Jenny A. Baglivo**.

541-544 The occurrence of piscine erythrocytic necrosis (PEN) in the sea lamprey, *Petromyzon marinus*, from several Maine localities, by **Stuart W. Sherburne**.

Vol. 82, No. 4, 1984

545-692 Morphology, systematics, and biology of the Spanish mackerels (*Scomberomorus*, Scombridae), by **Bruce B. Collette and Joseph L. Russo**.

693-702 Genetic variation and population structure in a spiny lobster, *Panulirus marginatus*, in the Hawaiian archipelago, by **James B. Shaklee and Paul B. Samollow**.

703-713 Genetic variation and population structure in a deepwater snapper, *Pristopomoides filamentosus*, in the Hawaiian archipelago, by **James B. Shaklee and Paul B. Samollow**.

715-720 Distribution and abundance of *Sicyonia pencillata* Lockington, 1879 in the Gulf of California, with some notes on its biology, by **M. E. Hendricks**.

Vol. 83, No. 1, 1985

1-79 The rock shrimp genus *Sicyonia* (Crustacea: Decapoda: Penaeoidea) in the eastern Pacific, by **Isabel Pérez Farfante**.

81-89 Variability in dimensions of salmonid otolith nuclei: implications for stock identification and microstructure interpretation, by **John D. Neilson, Glen H. Geen, and Brian Chan**.

91-101 Effects of feeding regimes and diel temperature cycles on otolith increment formation in juvenile chinook salmon, *Oncorhynchus tshawytscha*, by **John D. Neilson and Glen H. Geen**.

Vol. 83, No. 2, 1985

103-117 Using objective criteria and multiple regression models for age determination in fishes, by **George W. Boehlert**.

119-136 Rates of atresia in the ovary of captive and wild northern anchovy, *Engraulis mordax*, by **J. Roe Hunter and Beverly J. Macewicz**.

137-150 Egg production of the central stock of northern anchovy, *Engraulis mordax*, 1951-82, by **Nancy C. H. Lo**.

151-170 Vertical structure of nearshore plankton off southern California: a storm and a larval fish food web, by **M. M. Mullin, E. R. Brooks, F. M. H. Reid, J. Napp, and E. F. Stewart**.

171-185 Diel and depth variations in the sex-specific abundance, size composition, and food habits of queenfish, *Seriphus politus* (Sciaenidae), by **Edward E. DeMartini, Larry G. Allen, Robert K. Fountain, and Dale Roberts**.

187-193 Reaction of dolphins to a survey vessel: effects on census data, by **Roger P. Hewitt**.

195-206 Fin erosion among fishes collected near a southern California municipal wastewater outfall (1971-82), by **Jeffrey N. Cross**.

Vol. 83, No. 3, 1985

207-217 Confidence limits for population projections when vital rates vary randomly, by **Tim Gerrodette, Daniel Goodman, and Jay Barlow**.

219-233 Life history characteristics of *Pandalus montagui* and *Dichelopandalus leptocerus* in Penobscot Bay, Maine, by **David K. Stevenson and Fran Pierce**.

253-242 Visual threshold for schooling in northern anchovy, *Engraulis mordax*, by **John Hunter and Ragan Nicholl**.

243-251 Distributional patterns of fishes captured aboard commercial passenger fishing vessels along the northern Channel Islands, California, by **Milton S. Love, William Westphal, and Robson A. Collins**.

253-289 Morphological development, identification, and biology of larvae of Pandalidae, Hippolytidae, and Crangonidae (Crustacea, Decapoda) of the northern North Pacific Ocean, by **Evan B. Haynes**.

289-298 Within-season differences in growth of larval Atlantic herring, *Clupea harengus harengus*, by **Cynthia Jones**.

299-311 Seasonal cycles of fat and gonad volume in fish species of northern California rockfish (Scorpaenidae: *Sebastes*), by **Patrick J. Guillemot, Ralph J. Larson, and William H. Lenarz**.

313-330 The possible influence of warm core Gulf Stream rings upon shelf water larval fish distribution, by **G. R. Flierl and J. S. Wroblewski**.

331-341 Field and laboratory assessment of patterns in fecundity of a multiple spawning fish: the Atlantic silverside *Menidia menidia*, by **David O. Conover**.

343-356 Parasites of skipjack tuna, *Katsuwonus pelamis*: fishery implications, by **R. J. G. Lester, A. Barnes, and G. Habib**.

357-377 Behavior of bowhead whales, *Balaena mysticetus*, summering in the Beaufort Sea: a description, by **Bernd Würsig, Eleanor M. Dorsey, Mark A. Fraker, Roger S. Payne, and W. John Richardson**.

379-393 Food habits of bait-caught skipjack tuna, *Katsuwonus pelamis*, from the southwestern Atlantic Ocean, by **Lisa Ankenbrandt**.

395-402 Stomach contents of young sandbar sharks, *Carcharhinus plumbeus*, in Chincoteague Bay, Virginia, by **Robert J. Medved, Charles E. Stillwell, and John J. Casey**.

403-412 The spawning cycle of soft-shell clam, *Mya arenaria*, in San Francisco Bay, by **Shelly E. Rosenblum and Thomas M. Niesen**.

413-426 Recruitment patterns in young French grunts, *Haemulon flavolineatum* (Family Haemulidae), at St. Croix, Virgin Islands, by **W. N. McFarland, E. B. Brothers, J. C. Ogden, M. J. Shulman, E. L. Bermingham, and N. M. Kotchian-Prentiss**.

427-442 The harbor porpoise, *Phocoena phocoena*, in Fish Harbour, New Brunswick, Canada: occupancy, distribution, and movements, by **David E. Gaskin and Alan P. Watson**.

443-447 The relationship between tilefish, *Lopholatilus chamaeleonticeps*, abundance and sediment composition off Georgia, by **Gary D. Grossman, Michael J. Harris, and Joseph E. Hightower**.

447-457 The development and occurrence of larvae of the longfin Irish lord, *Hemilepidotus zapus* (Cottidae), by **Ann C. Matarese and Beverly M. Vinter**.

457-460 An approach to estimating an ecosystem box model, by **Jeffrey J. Polovina and Mark D. Ow**.

461-466 Food and feeding of the tomtate, *Haemulon aurolineatum* (Pisces, Haemulidae), in the South Atlantic Bight, by **George R. Sedberry**.

467-472 Semilunar reproductive cycles in *Fundulus heteroclitus* (Pisces: Cyprinodontidae) in an area without lunar tidal cycles, by **Anson H. Hines, Kenric E. Osgood, and Joseph J. Miklas**.

472-475 Undersea topography and the comparative distribution of two pelagic cetaceans, by **Clifford A. Hui**.

475-481 Larval and juvenile growth of sablefish, *Anoplopoma fimbria*, as determined from otolith increments, by **George W. Boehlert and Mary M. Yoklavich**.

Vol. 83, No. 4, 1985

483-496 Regional variations in the growth and age composition of northern anchovy, *Engraulis mordax*, by **R. H. Parrish, D. L. Mallicoate, and K. F. Mais**.

497-505 Parasites of benthic amphipods: microsporidans of *Ampelisca agassizi* (Judd) and some other gammarideans, by **Phyllis T. Johnson**.

507-520 Long-term responses of the demersal fish assemblages of Georges Bank, by **William J. Overholtz and Albert V. Tyler**.

521-530 Observer effect on incidental dolphin mortality in the eastern tropical Pacific tuna fishery, by **Bruce E. Wahlen and Tim D. Smith**.

531-541 Food habits of juvenile rockfishes (*Sebastes*) in a central California kelp forest, by **Michael M. Singer**.

543-552 Radio tracking the movements and activities of harbor porpoises, *Phocoena phocoena* (L.), in the Bay of Fundy, Canada, by **Andrew J. Read and David E. Gaskin**.

553-567 Early postnatal growth of the spotted dolphin, *Stenella attenuata*, in the offshore eastern tropical Pacific, by **Aleta A. Hohn and P. S. Hammond**.

567-574 Factors affecting the growth of undersize western rock lobster, *Panulirus cygnus* George, returned by fishermen to the sea, by **R. S. Brown and N. Caputi**.

575-586 Sea scallop fishing impact on American lobsters in the Gulf of St. Lawrence, by **G. S. Jamieson and A. Campbell**.

587-599 Age, growth, and distribution of larval spot, *Leiostomus xanthurus*, off North Carolina, by **Stanley M. Warlen and Alexander J. Chester**.

601-610 Diet of Pacific cod, *Gadus macrocephalus*, and predation on the northern pink shrimp, *Pandalus borealis*, in Pavlof Bay, Alaska, by **W. D. Albers and P. J. Anderson**.

611-621 Vertical distribution of ichthyoplankton off the Oregon coast in spring and summer months, by **George W. Boehlert, Dena M. Gadomski, and Bruce C. Mundy**.

623-643 Dolphin habitats in the eastern tropical Pacific, by **David W. K. Au and Wayne L. Perryman**.

645-655 Aspects of the life history of the fluffy sculpin, *Oligocottus snyderi*, by **Mary C. Freeman, Nate Neally, and Gary D. Grossman**.

657-669 Variability, trends, and biases in reproductive rates of spotted dolphins, *Stenella attenuata*, by **Jay Barlow**.

671-677 Annual band deposition within shells of the hard clam *Mercenaria mercenaria*: consistency across habitat near Cape Lookout, North Carolina, by **Charles H. Peterson, P. Bruce Duncan, Henry C. Summerson, and Brian F. Beal**.

677-682 Standing stock of juvenile brown shrimp, *Penaeus aztecus*, in Texas coastal ponds, by **Loretta F. Sullivan, Dennis A. Emiliani, and K. Neal Baxter**.

682-691 A possible link between coho (silver) salmon enhancement and a decline in central California Dungeness crab abundance, by **David H. Thomas**

692-695 The effects of net entanglement on the drag and power output of a California sea lion, *Zalophus californianus*, by **Steven D. Feldkamp**.

695-696 Notes on the life history of the catshark, *Scyliorhinus meadi*, by **Glenn R. Parsons**.

696-701 A comparison of scale and otolith aging methods for the alewife, *Alosa pseudoharengus*, by **David A. Libby**.

701-706 Probable causes of the rapid growth and high fecundity of walleye, *Stizostedion vitreum vitreum*, in the mid-Columbia River, by **Alec G. Maule and Howard F. Horton**.

707-711 Biological aspects of the spring breeding migration of snow crabs, *Chionoecetes opilio*, in Bonne Bay, Newfoundland (Canada), by **D. M. Taylor, R. G. Hooper, and G. P. Ennis**.

711-716 Feeding, diet, and repeat spawning of blueblack herring, *Alosa aestivalis*, from the Chowan River, North Carolina, by **Robert P. Creed, Jr.**

Marine Fisheries Review

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Vol. 42, no. 1, 1980

1 Industry outlook for greater utilization of hake products, by **Lee J. Weddig**.

2-3 Names of the hakes, by **Daniel M. Cohen**.

4-7 World utilization of hake, by **Donald R. Whitaker**.

8-11 South American hakes: The resource and its utilization, by **George G. Giddings**.

12-20 The silver hake stocks and fishery off the northeastern United States, by **E. D. Anderson, F. E. Lux, and F. P. Almeida**.

21-25 Handling whiting aboard fishing vessels, by **Joseph J. Licciardello**.

26-31 Silver hake—a prospectus, by **Paul M. Earl**.

32-37 Utilization of red hake, by **J. M. Regenstein, H. O. Hultin, M. Fey, and S. D. Kelleher**.

38-43 Evaluation of a prototype fish cleaning machine with proposals for a commercial processing line, by **J. M. Mendelsohn and J. G. Callan**.

44-49 A survey on whiting fillet blocks, by **Carmine Gorga and Kevin J. Allen**.

50-54 Markets for hake, by **Irene S. Gendron**.

55-60 Frozen storage characteristics of whiting blocks, by **Joseph J. Licciardello, Elinor M. Ravesi, and Michael G. Allsup**.

Vol. 42, no. 2, 1980

1-7 Costs and returns trends in the Gulf of Mexico shrimp industry, 1971-78, by **John P. Warren and Wade L. Griffin**.

8-15 Tridacnid clam stocks on Helen Reef, Palau, Western Caroline Islands, by **Wendy Hirschberger**.

16-20 Per capita annual utilization and consumption of fish and shellfish in Hawaii, 1970-77, by **Linda L. Hudgins**.

21-25 Polychlorinated biphenyls in fish and shellfish of the Chesapeake Bay, by **Max Eisenberg, Reba Mallman, and Haskell S. Tubiash**.

26-29 Bait loss from halibut longline gear observed from a submersible, by **William L. High**.

30-36 Three different delivery modes for fresh caught Pacific whiting, *Merluccius productus*, by **Calvin W. Philbin**,

Vol. 42, no. 3-4, 1980

1 Cooperative survey of rockfish and whiting resources off California, Washington, and Oregon, 1977: Introduction, by **Donald R. Gunderson and William H. Lenarz**.

2-16 Distribution and abundance of rockfish off Washington, Oregon, and California during 1977, by **Donald R. Gunderson and Terrance M. Sample**.

17-33 The distribution, abundance, and biological characteristics of Pacific whiting, *Merluccius productus*, in the California-British Columbia region during July-September 1977, by **Thomas A. Dark, Martin O. Nelson, Jimmie J. Traynor, and Edmund P. Nunnallee**.

34-40 Shortbelly rockfish, *Sebastes jordani*: A large unfished resource in waters off California, by **William H. Lenarz**.

41-47 Abundance, size and age composition, and growth of Pacific Ocean perch, *Sebastes alutus*, sampled during 1977, by **James T. Golden, Robert L. Demory, and William H. Barss**.

48-53 Size composition, age composition, and growth of chilipepper, *Sebastes goodei*, and bocaccio, *S. paucispinis*, from the 1977 rockfish survey, by **Mark Wilkins**.

54-56 Yellowtail rockfish, *Sebastes flavidus*, length and age composition off California, Oregon, and Washington in 1977, by **Michael E. Fraidenburg**.

57-63 Size composition, age composition, and growth of canary rockfish, *Sebastes pinniger*, and splitnose rockfish, *S. diploproa*, from the 1977 rockfish survey, by **George W. Boehlert**.

64-73 Stock separation of five rockfish species using naturally occurring biochemical genetic markers, by **Lisa N. Wishard, Fred M. Utter, and Donald R. Gunderson**.

74-79 Maturation and fecundity of four species of *Sebastes*, by **Donald R. Gunderson, Pamela Callahan, and Bernard Goiney**.

80-82 Morphology and distribution patterns of several important species of rockfish (genus *Sebastes*), by **Peter B. Adams**.

83-88 Preliminary analysis of Pacific Coast demersal fish assemblages, by **Wendy L. Gabriel and A. V. Tyler**.

Vol. 42, no. 5, 1980

1-14 Implications of transplantations to aquaculture and ecosystems, by **H. Rosenthal**.

15-20 The snail resource of the Eastern Bering Sea and its fishery, by **Richard A. MacIntosh**.

21-35 Groundfish monitoring in sponge-coral areas off the southeastern United States, by **H. Powles and C. A. Barans**.

Vol. 42, no. 6, 1980

1-14 Environmental factors affecting smoltification and early marine survival of anadromous salmonids, by **Gary A. Wedemeyer, Richard L. Saunders, and W. Craig Clarke**.

15-24 The efficiency of mollies, *Poecilia mexicana*, as live bait for pole-and-line skipjack fishing: fishing trials in the tropical central Pacific, by **Patrick G. Bryan**.

25-28 Evaluation of a bypass system for juvenile salmonids at Little Goose Dam, by **Jerrel R. Harmon and Donn L. Park**.

29-31 Recent observations of a large eddy in the Gulf of Alaska, by **R. K. Reed**.

32-34 Instrument for determining depth of dehydration of frozen fish, by **John G. Callan and John J. Ryan**.

Vol. 42, no. 7-8, 1980

1-9 Japan's squid fishing industry, by **William G. Court**.

10-14 Developments in South American squid fisheries, by **Marcelo Juanico**.

15-22 Recent developments in the squid, *Illex illecebrosus*, fishery of Newfoundland, Canada, by **Geoffrey V. Hurley**.

23-38 Biological considerations relevant to the management of squid (*Loligo pealei* and *Illex illecebrosus*) of the northwest Atlantic, by **A. M. T. Lange and M. P. Sissenwine**.

39-43 Squid catches resulting from trawl surveys off the southeastern United States, by **J. David Whitaker**.

44-50 Squid fishery in Texas: Biological, economic, and market considerations, by **Raymond F. Hixon, Roger T. Hanlon, Samuel M. Gillespie, and Wade L. Griffin**.

51-56 Experimental fishing for squid with lights in Nantucket Sound, by **Elizabeth H. Amaral and H. Arnold Carr**.

57-59 Experimental pair trawling for squid in New England, by **Alan J. Blott**.

60-66 Experimental jigging for squid off the northeast United States, by **Douglas Long and W. F. Rathjen**.

67-73 Scanning electron microscopy of squid, *Loligo pealei*: Raw, cooked, and frozen mantle, by **W. Steven Otwell and George G. Giddings**.

74-76 The quality of squid held in chilled seawater versus conventional shipboard handling, by **Vincent G. Ampola**.

77-84 Development of a squid skinning and eviscerating system, by **R. Paul Singh and Daniel E. Brown**.

85-92 "Saki-ika": Dried squid processing equipment and markets, by **Daniel J. Sheehy and Susan F. Vik**.

Vol. 42, no. 9-10, 1980

1 The bowhead whale: Whaling and biological research (preface).

2-5 Introduction: A scientific perspective of the bowhead whale problem, by **Michael F. Tillman**.

5-19 Historical shore-based catch of bowhead whales in the Bering, Chukchi, and Beaufort Seas, by **William M. Marquette and John R. Bockstoce**.

20-27 A preliminary estimate of the reduction of the western Arctic bowhead whale population by the pelagic whaling industry: 1848-1915, by **John R. Bockstoce**.

27-29 Minimal historical size of the western Arctic population of bowhead whales, by **L. L. Eberhardt and J. M. Breiwick**.

30-36 Sampling strategy for enumerating the western Arctic population of the bowhead whale, by **Bruce D. Krogman**.

36-46 Spring migration of the western Arctic population of bowhead whales, by **Howard W. Braham, Mark A. Fraker, and Bruce D. Krogman**.

46-51 Migration of bowhead whales past Cape Lisburne, Alaska, by **David J. Rugh and James C. Cubbage**.

51-57 Vessel survey for bowhead whales in the Bering and Chukchi Seas, June-July 1978, by **Marilyn Dahlheim, Teresa Bray, and Howard Braham**.

57-64 Summer distribution of bowhead whales in the Eastern Beaufort Sea, by **Mark A. Fraker and John R. Bockstoce**.

65-69 Spitsbergen bowhead stock: A short review, by **Randall R. Reeves**.

70-73 Ingutuk: A morphological variant of the bowhead whale, *Balaena mysticetus*, by **Howard W. Braham, Floyd E. Durham, Gordon H. Jarrell, and Stephen Leatherwood**.

74-80 External morphology of bowhead fetuses and calves, by **Floyd E. Durham**.

80-85 Observations of bowhead whales during spring migration, by **Geoffry M. Carroll and John R. Smithhisler**.

86-87 Sounds recorded in the presence of an adult and calf bowhead whale, by **D. K. Ljungblad, S. Leatherwood, and M. E. Dahlheim**.

88-91 Foods utilized by bowhead whales near Barter Island, Alaska, autumn 1979, by **Lloyd F. Lowry and John J. Burns**.

91-92 Some observations on urine from a bowhead whale, by **W. Medway**.

92-96 Healed penetrating injury of a bowhead whale, by **Thomas F. Albert, George Migaki, Harold W. Casey, and L. Michael Philo**.

Vol. 42, no. 11, 1980

1-12 Offshore petroleum resource development and marine mammals: A review and research recommendations, by **J. R. Geraci and D. J. St. Aubin**.

13-18 A preliminary analysis of the tilefish, *Lopholatilus chamaeleonticeps*, fishery in the Mid-Atlantic Bight, by **C. B. Grimes, K. W. Able, and S. C. Turner**.

19-25 Preliminary method for estimating marine fisheries enforcement requirements, by **Charles M. Fuss, Jr., Daniel W. Dunn, and Robert M. Spraitz**.

26-30 The effect of washing on the quality characteristics of minced fresh croaker, *Micropogon undulatus*, held in frozen storage, by **Jamshyd G. Rasekh, Melvin E. Waters, and V. D. Sidwell**.

Vol. 42, no. 12, 1980

1-11 A review of introductions of exotic oysters and biological planning for new importations, by **Jay D. Andrews**.

12-17 Social considerations associated with marine recreational fishing under FCMA, by **Chad P. Dawson and Bruce T. Wilkins**.

18-27 Trends in ex-vessel value and size composition of annual landings of brown, pink, and white shrimp from the Gulf and South Atlantic Coasts of the United States, by **Charles W. Caillouet and Dennis B. Koi**.

28-33 Relationship between ex-vessel value and size composition of annual landings of shrimp from the Gulf and South Atlantic Coasts, by **Charles W. Caillouet, Dennis B. Koi, and William B. Jackson**.

Vol. 43, no. 1, 1981

1-12 Chlorinated hydrocarbon levels in fishes and shellfishes of the northeastern Pacific Ocean, including the Hawaiian Islands, by **Virginia F. Stout and F. Lee Beezhold**.

13-20 The Philippines squid fishery: A review, by **Aniceto M. Hernando, Jr., and Efren Ed. C. Flores**.

21-25 Processing wastewater from two mechanized canneries, by **Frederick E. Stone, Harold J. Barnett, Patrick J. Hunter, Glenn C. Roberts, and Richard W. Nelson**.

26-33 Initial U.S. exploration of nine Gulf of Alaska seamounts and their associated fish and shellfish resources, by **Steven E. Hughes**.

Vol. 43, no. 2, 1981

1-8 Culture of Atlantic salmon, *Salmo salar*, in Puget Sound, by **James L. Mighell**.

9-19 Guianas-Brazil shrimp fishery and related U.S. research activity, by **Alexander Dragovich**.

20-22 Rope culture of the kelp *Laminaria groenlandica* in Alaska, by **Robert J. Ellis and Natasha I. Calvin**.

23-24 The impact of the assurance of high quality of seafoods at point of sale, by **Louis J. Ronsivalli, John D. Kaylor, Philip J. McKay, and Carmine Gorga**.

Vol. 43, no. 3, 1981

1-13 A survey of chlorinated hydrocarbon residues in menhaden fishery products, by **Virginia F. Stout, Clifford R. Houle, and F. Lee Beezhold**.

14-19 Acylation of fish protein: Effect of reaction conditions on products, by **Kang-Ho Lee, Herman S. Groninger, and John Spinelli**.

20-23 Radio tracking juvenile marine turtles, by **Robert E. Timko and David DeBlanc**.

Vol 43, no. 4, 1981

1-15 Low temperature preservation of seafoods: A review, by **Louis J. Ronsivalli and Daniel W. Baker**.

16-18 Effect of arterial incisions on the amount of bleeding and flesh quality of rainbow trout, by **Wayne I. Tretsven and Benjamin G. Patten**.

19-25 Movement of tagged sea scallops on Georges Bank, by **J. A. Posgay**.

Vol. 43, no. 5, 1981

1-19 Sampling by U.S. observers on foreign fishing vessels in the eastern Bering Sea and Aleutian Island region, 1977-78, by **Russell Nelson, Jr., Robert French, and Janet Wall**.

20-35 Foreign fisheries in the Gulf of Alaska, 1977-78, by **Janet Wall, Robert French, and Russell Nelson, Jr.**

36-44 The foreign fisheries off Washington, Oregon, and California, 1977-78, by **Robert French, Russell Nelson, Jr., and Janet Wall**.

Vol. 43, no. 6, 1981

1-11 Atlantic skipjack tuna: Influences of mean environmental conditions on their vulnerability to surface fishing gear, by **R. H. Evans, D. R. McLain, and R. A. Bauer**.

12-16 Burnt tuna: Conditions leading to rapid deterioration in the quality of raw tuna, by **J. L. Cramer, R. M. Nakamura, A. E. Dizon, and W. N. Ikehara**.

17-20 Quality of squid, *Illex illecebrosus*, mantles canned in oil, by **Bohdan M. Slabyj, Gordon E. Ramsdell, and Ruth H. True**.

21-26 A system to singulate and align squid for packaging and processing, by **D. E. Brown, R. Paul Singh, and R. J. Coffelt**.

Vol. 43, no. 7, 1981

1-12 The biology, fisheries, and management of the queen conch, *Strombus gigas*, by **Willard N. Brownell and John M. Stevely**.

13-19 Habitat and nursery grounds of Pacific rockfish, *Sebastes* spp., in rocky coastal areas of southeastern Alaska, by **H. Richard Carlson and Richard R. Straty**.

20-24 Conditional fishery status as a solution to overcapitalization in the Gulf of Mexico shrimp fishery, by **Vito Blomo**.

Vol. 43, no. 8, 1981

1-11 A biological and economic analysis of the North Carolina charter boat fishery, by **Charles S. Manooch III, Leon E. Abbas, and Jeffrey L. Ross**.

12-20 Paying-passenger recreational fisheries of the Florida Gulf Coast and Keys, by **Joan A. Browder, J. Connor Davis, and Eulalie Sullivan**.

21-26 Possible temperature effects on charter boat catches of king mackerel and other coastal pelagic species in northwest Florida, by **William A. Fable, Jr., Harold A. Brusher, Lee Trent, and Joe Finnegan, Jr.**

Vol. 43, no. 9, 1981

1-13 Anchored fish aggregating devices in Hawaiian waters, by **Walter M. Matsumoto, Thomas K. Kazama, and Donald C. Aasted**.

14-22 The performance and environmental effects of a hydraulic clam dredge, by **Thomas L. Meyer, Richard A. Cooper, and Kenneth J. Pecci**.

23-24 A comparison of rearing costs and returns of selected herbivorous, omnivorous, and carnivorous, aquatic species, by **Yung C. Shang**.

Vol. 43, no. 10, 1981

1-4 Marine resource management under uncertainty: The case of eastern spinner dolphin depletion, by **James K. Sebenius**.

5-8 Spore structure of *Minchinia chitonis*, by **S. J. Ball**.

9-14 Histamine formation and honeycombing during decomposition of skipjack tuna, *Katsuwonus pelamis*, at elevated temperatures, by **Hilmer A. Frank, Derrick H. Yoshinaga, and Wai-Kit Nip**.

15-22 Physical properties of blue shark useful in designing a skinning machine, by **D. E. Brown, R. Paul Singh, R. E. Garrett, and Barbara Katz**.

Vol. 43, no. 11, 1981

1-10 A management model of the northwest African cephalopod fishery, by **W. E. Grant, W. L. Griffin, and J. P. Warren**.

11-15 Demonstration of advances in Virgin Islands small boat fishing techniques, by **David A. Olsen and Joseph A. LaPlace**.

16-20 A corral system for examining pelagic dophin schools, by **Jacqueline G. Jennings, James M. Coe, and Walter F. Gandy**.

Vol. 43, no. 12, 1981

1-9 Areal distribution of marked Columbia River Basin spring chinook salmon recovered in fisheries and at parent hatcheries, by **Roy J. Wahle, Ed Chaney, and Roger E. Pearson**.

10-17 Deepwater shrimp resources in Vanuatu: A preliminary survey off Port Vila, by **Michael G. King**.

18-21 Frozen storage stability of whole and headless freshwater prawns, *Macrobrachium rosenbergii*, by **Malcolm B. Hale and Melvin E. Waters**.

Vol. 44, no. 1, 1982

1-7 An input-output analysis of Maine's fisheries, by **Hugh Briggs, Ralph Townsend, and James Wilson**.

8-15 A recommended procedure for assuring the quality of fish fillets at point of consumption, by **Louis J. Ronsivalli**.

16-21 The clam-kicking fishery of North Carolina, by **James F. Guthrie and Curtis W. Lewis**.

Vol. 44, no. 2, 1982

1-10 Predation by marine mammals on squids of the eastern North Pacific Ocean and the Bering Sea, by **Clifford H. Fiscus**.

11-16 International awareness for quality seafoods: A survey, by **Carmine Gorga and Louis J. Ronsivalli**.

17-20 Extended fresh storage of fishery products with modified atmospheres: A survey, by **Kurt A. Wilhelm**.

Vol. 44, no. 3, 1982

1-6 Consumer expenditure patterns for fish and shellfish, by **Oral Capps, Jr.**

7-11 A study in the use of a high concentration of CO_2 in a modified atmosphere to preserve fresh salmon, by **Harold J. Barnett, Frederick E. Stone, Glenn C. Roberts, Patrick J. Hunter, Richard W. Nelson, and Josephine Kwok**.

12-17 Microbiological profile of Pacific shrimp, *Pandalus jordani*, stowed under refrigerated seawater spray, by **J. S. Lee and Edward Kolbe**.

18-21 Tagging herring with coded-wire microtags, by **Kenneth J. Krieger**.

Vol. 44, no. 4, 1982

1-18 The design of an electrohydraulic dredge for clam surveys, by **Ronald Joel Smolowitz and Vernon E. Nulk**.

19-24 Satellite sea turtle tracking, by **Robert E. Timko and A. Lawrence Kolz**.

Vol. 44, no. 5, 1982

1-12 Pacific whiting, *Merluccius productus*: I. Abnormal muscle texture caused by myxosporidian-induced proteolysis, by **Max Patashnik, Herman S. Groninger, Jr., Harold Barnett, George Kudo, and Barbara Koury**.

13-20 Radio telemetry of Hawaiian green turtles at their breeding colony, by **Andrew E. Dizon and George H. Balazs**.

21-25 Economic analysis of "steam-shock" and "pasteurization" processes for oyster shucking, by **John W. Brown**.

Vol. 44, no. 6-7, 1982

1 Artificial reefs and marine fisheries enhancement (preface), by **W. Hobart** (editor).

2-3 Artificial reefs: Toward a new era in fisheries enhancement?, by **Richard B. Stone**.

4-15 The use of designed and prefabricated artificial reefs in the United States, by **Daniel J. Sheehy**.

16-23 The Coal-Waste Artificial Reef Program (C-WARP): A new resource potential for fishing reef construction, by **Peter M. J. Woodhead, Jeffrey H. Parker, and Iver W. Duedall**.

24-27 Artificial reefs as a resource management option for siting coastal power stations in southern California, by **Robert S. Grove**.

28-37 Marine habitat enhancement and urban recreational fishing in Washington, by **Raymond M. Buckley**.

38-44 Fish foraging on an artificial reef in Puget Sound, Washington, by **Gregory J. Hueckel and R. Lee Stayton**.

45-48 The effects of an artificial reef on resident flatfish populations, by **James M. Walton**.

49-52 Food of fish collected on artificial reefs in the New York Bight and off Charleston, South Carolina, by **Frank W. Steimle, Jr., and Larry Ogren**.

53-60 Early development of Pendleton Artificial Reef, by **John J. Grant, Kenneth C. Wilson, Allen M. Grover, and Heidi A. Togstad**.

Vol. 44, no. 8, 1982

1-14 The Atlantic coast surf clam fishery, 1965-1974, by **John W. Ropes**.

15-21 Stabilization of the flavor of frozen minced whiting: I. Effect of various antioxidants, by **Joseph J. Licciardello, Elinor M. Ravesi, and Michael G. Allsup**.

Vol. 44, no. 9-10, 1982

1-4 Effects of the 1981 closure on the Texas shrimp fishery, by **Albert C. Jones, Edward F. Klima, and John R. Poffenberger**.

5-15 Relative abundance and size distributions of commercially important shrimp during the 1981 Texas closure, by **Geoffrey A. Matthews**.

16-30 A review of the offshore shrimp fishery and the 1981 Texas closure, by **Edward F. Klima, Kenneth N. Baxter, and Frank J. Patella, Jr.**

31-37 Impacts on shrimp yields of the 1981 fishery conservation zone closure off Texas, by **Scott Nichols**.

38-43 Estimated impacts on ex-vessel brown shrimp prices and value as a result of the Texas closure regulation, by **John R. Poffenberger**.

44-49 Comparison of shrimp and finfish catch rates and ratios for Texas and Louisiana, by **Noel H. Watts and Gilmore J. Pellegrin, Jr.**

50-54 Shrimp fleet mobility in relation to the 1981 Texas closure, by **Albert C. Jones and James R. Zweifel**.

55-57 Survey of ice plants in Louisiana, Mississippi, and Alabama, 1980-81, by **John M. Ward and John R. Poffenberger**.

Vol. 44, no. 11, 1982

1-10 Frozen seafoods: The economic feasibility of quality assurance to the consumer, by **Carmine Gorga, Burton L. Tinker, Debra Dyer, and Joseph M. Mendelsohn**.

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Vol. 44, no. 12, 1982

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Vol. 45, no. 1, 1983

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Vol. 45, no. 2, 1983

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Vol. 45, no. 3, 1983

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Vol. 45, no. 4-6, 1983

1-9 Participation of U.S. trawlers in the offshore shrimp fisheries of French Guiana, Surinam, and Guyana, 1978-79, by **Alexander Dragovich and Essie M. Coleman**.

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Vol. 45, no. 7-9, 1983

1-20 Toward an improved seafood nomenclature system, by **Roy E. Martin, Willard H. Doyle, and James R. Brooker**.

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Vol. 45, no. 10-12, 1983

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Vol. 46, no. 1, 1984

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Vol. 46, no. 2, 1984

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Vol. 46, no. 3, 1984

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Vol. 46, no. 4, 1984

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Vol. 47, no. 2, 1985

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Vol. 47, no. 3, 1985

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Vol. 47, no. 4, 1985

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A

Aasted, Donald C.—see Matsumoto et al.
Abbas, Leon E.—see Manooch et al.
Abdel-Reheim, H.—see Brooks et al.
Abe, Takemitsu—see Kanazawa et al.
Able, K. W.—see Grimes et al.; Katz et al.; Turner et al.
Acerra, Robin—see Shaklee et al.
Ackert, James D.—see Rothschild et al.
Actor, Ann T.—see Loughlin et al.
Adams, Gary—see Spotte and Adams
Adams, Peter B., FB 78:1; MFR 42(3-4):80
_____—see Lenarz and Adams
Agnello, Richard J., MFR 45(7-9):21
Ahrenholz, Dean W., FB 79:325
Ainley, David G.—see Allen et al.
_____, Anthony R. DeGange, Linda L. Jones, and Richard J. Beach, FB 79:800
_____, Harriet R. Huber, and Kevin M. Bailey, FB 80:253
_____, Craig S. Strong, Harriet R. Huber, T. James Lewis, and Stephen H. Morrell, FB 78:941
Akiyama, Toshio—see Murai et al.
Al-Judaimi, Manal M., A. K. Jafri, and K. A. George, FB 79:211
Alarcon, Victor Hugo—see Goldberg et al.
Albers, W. D., and P. J. Anderson, FB 83:601
Albert, Thomas F., George Migaki, Harold W. Casey, and L. Michael Philo, MFR 42(9-10):92
Alcorn, Doris J., TM SWFC-42
Alevizon, William S.—see Colton and Alevizon; see Ebeling et al.
Alexander, Leigh C.—see Greenstein et al.
Alexander, S. K.—see Schwartz et al.
Alheit, Jurgen, TR 36:59-61
_____—see Goldberg et al.
Ali, Mohammed Liaquat—see Ulanowicz et al.
Alioshkina, L. D., A. V. Gaevskaya, and A. A. Kovaliova, TR 25:29
Allen, D. M.—see Costello et al.
Allen, Kevin J.—see Gorga and Allen
Allen, Larry G., FB 80:769
_____—see DeMartini et al.
_____, and Edward E. DeMartini, FB 81:569
Allen, Sarah G., David G. Ainley, Gary W. Page, and Christine A. Ribic, FB 82:493
Allsup, M. G.—see Licciardello et al.
Allsup, Michael G.—see Licciardello et al.
Almeida, F. P.—see Anderson et al.
Alton, M. S.—see Livingston and Alton
Alton, Miles S., TM F/NWC-10
_____—see Morris et al.
Amaral, Elizabeth H., and H. Arnold Carr, MFR 42(7-8):51
Ambler, Julie W., FB 78:13
Ames, Jack A.—see Loughlin et al.
Ampola, Vincent G., MFR 42(7-8):74
Ampola, Vincent G., and Cynthia L. Keller, MFR 47(3):26
Anderson, E. D., F. E. Lux, and F. P. Almeida, MFR 42(1):12
Anderson, Emory D., TM F/NEC-29; TR 31:1-14
_____, and Guy D. Marchesseault, TM F/NEC-3
Anderson, Eric E., MFR 47(2):42; TM F/NWC-90
Anderson, J. L.—see Colton et al.
Anderson, Jacquelyn L.—see Colton and Anderson
Anderson, James Jay, FB 79:315
Anderson, Lee G.—see Hennemuth et al.
Anderson, P. J.—see Albers and Anderson
Anderson, S.—see Neff et al.
Andrews, Jay D., MFR 42(12):1
Andryszak, Bryan L., and Robert H. Gore, FB 79:487
Anger, Klaus, and Ralph R. Dawirs, FB 80:419
Ankenbrandt, Lisa, FB 83:379
Antoine, Loic M., Jeremy J. Mendoza, and Patrice M. Cayré, TR 8:91-97
Antonelis, George A., Jr., Clifford H. Fiscus, and Robert L. DeLong, FB 82:67
_____, Stephen Leatherwood, and Daniel K. Odell, FB 79:562
Appeldoorn, Richard S., FB 81:75
Appy, Ralph G.—see MacDonald et al.
Arai, Shigeru, C 447:3-5
Armstrong, David A.—see Stevens and Armstrong
Armstrong, H. W.—see Landry and Armstrong
Armstrong, R., TM SEFC-50
Arnold, C. R., TR 10:25-27
_____—see Holt et al.
Arnold, Connie R.—see Holt and Arnold
Asper, Edward D.—see Odell et al.
Athearn, James B.—see Basham et al.; Delarm et al.; Koski et al.
Au, D., and W. Perryman, FB 80:371
Au, D. W. K.—see Perrin et al.
Au, David W. K., and Wayne L. Perryman, FB 83:623
Avdeev, G. V., TR 25:79-82
Avdeev, V. V., TR 25:89-92

B

Babcock, Malin M.—see Rice et al.
Babinchak, John A., Daniel Goldmintz, and Gary P. Richards, FB 80:884
Baglin, Raymond E., Jr., FB 80:121
_____, Mark I. Farber, William H. Lenarz, and John M. Mason, Jr., FB 78:179
Baglivo, Jenny A.—see Brousseau and Baglivo
_____—see Brousseau et al.
Bailey, Jack E.—see Jaenicke et al.; Rice and Bailey
_____, and William R. Heard, TM ABFL-1
_____, Stanley D. Rice, Jerome J. Pella, and Sidney G. Taylor, FB 78:649
_____, and Sidney G. Taylor, TM ABFL-3
Bailey, K. M.—see Livingstone and Bailey
Bailey, Kevin M., FB 80:589
_____—see Ainley et al.
_____, and Robert C. Francis, MFR 47(2):8
Baker, Daniel W., II—see Ronsivalli and Baker
Bakkala, R.—see Umeda and Bakkala
_____, and L.-L. Low, TM F/NWC-42
Bakkala, R. G.—see Bohle and Bakkala

Bakkala, R. G., and L.-L. Low, TM F/NWC-53
_____, T. M. Sample, M. S. Bohle, J. A. June, A. M. Shimada, and Y. Umeda, TM F/NWC-30
_____, V. G. Wespestad, and L.-L. Low, TM F/NWC-33
Bakkala, Richard G.—see Grant et al.; Sample et al.; Smith and Bakkala; Wespestad et al.
_____, and Loh-Lee Low, TM F/NWC-83
_____, Jimmie J. Traynor, Kazuyuki Teshima, Allen M. Shimada, and Hirotsune Yamaguchi, TM F/NWC-87
Balazs, George H., TM SWFC-7; TM SWFC-36
_____—see Dizon and Balazs
Ball, S. J., MFR 43(10):5
Balsiger, J. W.—see Ito and Balsiger
Balsiger, James W., Daniel H. Ito, Daniel K. Kimura, David A. Somerton, and Joseph M. Terry, TM F/NWC-72
Banas, P. T., D. E. Smith, and D. C. Biggs, FB 80:648
Barak, J. E.—see Boehm and Barak
Barans, C. A.—see Powles and Barans
Barans, Charles A.—see Manooch and Barans
Bard, F. X.—see Compean-Jimenez and Bard
Barger, Lyman E.—see Johnson et al.
_____, and Allyn G. Johnson, TM SEFC-22
_____, and Mark L. Williams, TM SEFC-14
Barker, 2Lt. John V.—see Basham et al.
Barker, Lt. John V.—see Delarm et al.
Barker, Morris W.—see Mathews and Barker
Barker, Seth L., David W. Townsend, and John S. Hacunda, FB 79:198
Barlow, J., and R. S. Holt, TM SWFC-56
Barlow, Jay, FB 83:657
_____—see Gerrodette et al.
_____, and Aleta A. Hohn, TM SWFC-48
Barnes, A.—see Lester et al.
Barnett, Arthur M., Andrew E. Jahn, Peter D. Sertic, and William Watson, FB 82:97
Barnett, Harold J.—see Conrad et al.; Nelson et al.; Patashnik et al.; Stone et al.
_____, Frederick E. Stone, Glenn C. Roberts, Patrick J. Hunter, Richard W. Nelson, and Josephine Kwok, MFR 44(3):7
Barss, W. H.—see Boehlert et al.
Barss, William H.—see Golden et al.
Bartoo, N.—see Parrish et al.
Bartoo, Norman W., and Keith R. Parker, FB 81:91; TR 8:25-27
Basham, Larry R.—see Delarm et al.; Slatick and Basham
_____, Michael R. Delarm, James B. Athearn, and Stephen W. Pettit, TM F/NWR-2
_____, _____, Stephen W. Pettit, James B. Athearn, and 2Lt. John V. Barker, TM F/NWR-5
Bath, D. W., and J. M. O'Connor, FB 80:599
Baucom, Joe—see Odell et al.
Bauer, O. N., and Yu. I. Polianski, TR 25:5-6
Bauer, R. A.—see Evans et al.
Bauersfeld, P. E., and L. F. Winemiller, TM SEFC-166
Baxter, K. N.—see Klima et al.
_____, and S. L. Hollaway, TM SEFC-72
Baxter, K. Neal—see Hollaway and Baxter; Klima et al.
Baxter, Kenneth N.—see Klima et al.
Beach, Douglas W.—see Higgins et al.
Beach, Richard J.—see Ainley et al.
Beacham, Terry D., FB 81:303
_____, and Paul Starr, FB 80:813
Beal, Brian F.—see Peterson et al.
Beamish, Richard J.—see McFarlane and Beamish
_____, and Gordon A. McFarlane, MFR 47(2):75; TR 8:29-33
Beardsley, G. L.—see Palko et al.
Beardsley, Grant L., FB 78:805
_____—see Palko et al.
_____, and Ramon J. Conser, FB 79:49
Beebe, J.—see Smedes et al.
Beezhold, F. Lee—see Stout and Beezhold; Stout et al.
Behrens, William J.—see McHugh et al.
Benefield, Richard L.—see Matthews et al.
Benirschke, K., Mary L. Johnson, and Rolf J. Benirschke, FB 78:507
Benirschke, Rolf J.—see Benirschke et al.
Bergey, Anne—see Shimek et al.
Berkeley, Steven A., and Edward D. Houde, TR 8:137-143
Berman, Carl R., Jr.—see Pearce et al.
Bermingham, E. L.—see McFarland et al.
Berrien, Peter, Wallace Morse, and Michael Pennington, TM F/NEC-30
Bertolino, A. R., TM SEFC-163
Bibb, Brenda Goldberg, Ronald L. Hersey, and Rocco A. Marcello, Jr., S 775:15-22; S 775:63-64
Biggs, D. C.—see Banas et al.
Bingham, Stephen M.—see Bolton et al.; Meaburn et al.
Bird, Patricia M., FB 79:376
Bishop, James M., James G. Gosselink, and James H. Stone, FB 78:741
Bjorndal, Karen—see Carr et al.
Blackburn, Maurice, and D. L. Serventy, FB 79:85
Blahm, Theodore H.—see Durkin et al.
Blaxter, J. H. S.—see Colby et al.
Blaylock, J. W.—see Pearson et al.
Blazer, V. S.—see Wolke et al.
Bledsoe, L. J.—see Knechtel and Bledsoe
Bledsoe, Lewis J.—see Knechtel and Bledsoe
Blomo, Vito, MFR 43(7):20
Blott, Alan J., MFR 42(7-8):57
Blum, F.—see Low et al.
Bockstoce, John, MFR 42(9-10):20
_____—see Fraker and Bockstoce; Marquette and Bockstoce
Boehlert, George W., FB 79:789; FB 83:103; MFR 42(3-4):57
_____, W. H. Barss, and P. B. Lamberson, FB 80:881
_____, Dena M. Gadomski, and Bruce C. Mundy, FB 83:611
_____, and Mary M. Yoklavich, FB 83:475
Boehm, P. D., and J. E. Barak, S 751:13-15
_____, and D. L. Fiest, TM SEFC-30
Boehm, Paul D., and Pam Hirtzer, TM F/NEC-13
Bogar, Richard G.—see MacLeod et al.
Bohle, M. S.—see Bakkala et al.
_____, and R. G. Bakkala, TM F/NWC-55
Bohme, L. S.—see Parker et al.
Boland, G.—see Howard et al.
Bolton, Karen B.—see Meaburn et al.
_____, Stephen M. Bingham, and Peter J. Eldridge, TM SEFC-18
Bolz, George R.—see Lough et al.
_____, and R. Gregory Lough, FB 81:827
Bond, Carl E., Ting T. Kan, and Katherine W. Myers, FB 81:165
Borden, David V. D.—see Fogarty et al.
Borderías, A. J., J. Jiménez-Colmenero, and M. Tejada, MFR 47(4):43
Borgatti, Mando—see Lawton et al.
Bosworth, Weldon S.—see Grabe et al.

Botsford, Louis W., Richard D. Methot, Jr., and James E. Wilen, FB 80:791
Botton, Mark L., and Harold H. Haskin, FB 82:383
Bowen, R.—see Lake et al.
Bowering, W. R., FB 81:599
Bowers, Michael J.—see Eldridge et al.
Bowman, R. E.—see Durbin et al.
Bowman, Ray E., FB 79:200; FB 82:21
_____—see Langton and Bowman
_____, and William L. Michaels, TM F/NEC-28
Boyd, S. H.—see Wiebe et al.
Boynton, Walter R.—see Setzler et al.
Bozeman, Earl L.—see Helfman et al.
Braddon, Sylvia, Brian B. Caffrey, and Jeffrey R. Pike, TM SEFC-105
_____, and Charles R. Sumpter, TM SEFC-83
Brady, Phillips—see Lawton et al.
Braham, H. W., TM F/NWC-36; TM F/NWC-46
Braham, Howard W., MFR 46(4):2, 45; TM F/NWC-58
_____—see Dahlheim et al.; Morris et al.; Rice et al.
_____, John J. Burns, Gennadii A. Fedoseev, and Bruce D. Krogman, TR 12:25-47
_____, Floyd E. Durham, Gordon H. Jarrell, and Stephen Leatherwood, MFR 42(9-10):70
_____, Mark A. Fraker, and Bruce D. Krogman, MFR 42(9-10):36
_____, Bruce D. Krogman, and Geoffrey M. Carroll, S 778
_____, and Dale W. Rice, MFR 46(4):38
Branstetter, Steven, and Robert L. Shipp, FB 78:177
Bray, Richard N., FB 78:829
_____—see Ebeling et al.
Bray, Teresa—see Dahlheim et al.
Brege, Dean A., FB 79:567
Breiwick, J. M.—see Eberhardt and Breiwick
Breiwick, Jeffrey M.—see Gosho et al.; Mizroch et al.
_____, Edward D. Mitchell, and Douglas G. Chapman, FB 78:843
Bretschneider, Dale Emil, and Douglas R. McLain, S 761
Briggs, Hugh, Ralph Townsend, and James Wilson, MFR 44(1):1
Brill, Richard W.—see Holland et al.; Shaklee et al.
Brodersen, Christine C.—see Rice et al.
Brodeur, Richard D.—see Dickinson et al.; Peterson et al.
_____, and William G. Pearcy, FB 82:269
Bronstein, M. N., R. J. Price, E. M. Strange, E. F. Melvin, C. M. Dewees, and B. B. Wyatt, MFR 47(1):68
Brooker, James R.—see Martin et al.
Brooks, E. R.—see Mullin et al.
Brooks, J., E. Estes, and W. Huang, TM SEFC-36
_____, _____, D. Wiesenburg, C. Schwab, and H. Abdel-Reheim, TM SEFC-47
Brooks, J. M., TM SEFC-32
Brothers, E. B.—see McFarland et al.
Brothers, Edward B., TR 8:35-44
_____—see Helfman et al.
_____, Eric D. Prince, and Dennis W. Lee, TR 8:49-59
Brousseau, Diane J., FB 81:733
_____, and Jenny A. Baglivo, FB 82:537
_____, _____, and George E. Lang, Jr., FB 80:642
Browder, Joan A., TM SEFC-118
_____—see Fonyo et al.
_____, J. Connor Davis, and Eulalie Sullivan, MFR 43(8):12
_____, and Joseph E. Powers, TM SEFC-9
Brown, Bradford E.—see McBride and Brown
Brown, Brian—see Silverthorne et al.
Brown, D. E., R. Paul Singh, and R. J. Coffelt, MFR 43(6):21
_____, _____, R. E. Garrett, and Barbara Katz, MFR 43(10):15
Brown, Daniel E.—see Singh and Brown
Brown, Donald W.—see MacLeod et al.
Brown, John W., MFR 44(5):21
_____—see Ernst and Brown
_____, and W. Davis Folson, TM SEFC-121
_____, John W. Manzi, Harry Q. M. Clawson, and Fred S. Stevens, MFR 45(4-6):10
Brown, R. S., and N. Caputi, FB 83:567
Brown, Robin R., and Bruce R. Mate, FB 81:291
Brown, Thomas—see Hale and Brown
Brown-Leger, Susan—see Dickinson et al.
Brownell, Willard N., and John M. Stevely, MFR 43(7):1
Brucks, John, Thomas D. Leming, Samuel Burkett, Jr., S. Peteherych, P. M. Woiceshyn, and M. G. Wurtele, TM SEFC-107
Brundage, Harold M., III, and Robert E. Meadows, FB 80:337
Brunenmeister, Susan L., TM SEFC-20
_____—see Fonyo et al.
Brusher, H. A.—see Williams et al.
Brusher, Harold A.—see Fable et al.; Renfroe and Brusher; Williams et al.
_____, and Barbara J. Palko, MFR 47(3):54
_____, Mark L. Williams, Lee Trent, and Barbara J. Palko, MFR 46(3):48
Brusher, H.—see Neal et al.
Bryan, Patrick G., MFR 42(6):15
Bryson, John C.—see Rothschild et al.
Buchanan, Kurt D.—see Durkin et al.
Buck, John D., FB 82:375
Buckley, Jack—see Dadswell et al.
Buckley, James L.—see Collings et al.
Buckley, Raymond M., MFR 44(6-7):28
Bucy, Michele—see Mercer and Bucy
Buelna, Elizabeth K.—see Morrow and Buelna
Bukhtiyarov, Yuri A.—see Fay et al.
_____, Kathryn J. Frost, and Lloyd F. Lowry, TR 12:55-59
Bullard, Fern A., and Jeff Collins, FB 78:465
Burgess, Lourdes Alvina, FB 80:703
Burkett, Samuel B.—see Kemmerer et al.
Burkett, Samuel, Jr.—see Brucks et al.
Burlin, V. V.—see Potievski et al.
Burns, Frank D., TM F/SWR-011
Burns, John J.—see Braham et al.; Lowry and Burns
_____, Francis H. Fay, and Gennadii A. Fedoseev, TR 12:5-16
_____, and Vitali N. Gol'tsev, TR 12:17-24
Burrows, Douglas G.—see MacLeod et al.
Bush, Louise F., C 440
Butcher, W., J. Buteau, K. Hassenmiller, G. Perry, and S. Staitieh, TM F/NWC-9
Buteau, J.—see Butcher et al.
Butler, Philip A., TR 35
Butler, Richard W.—see Coe and Butler; Coe et al.
Butorina, T. E.—see Konovalov and Butorina
Bybee, James R., and John B. Richards, TM F/SWR-001

Caffin, John E.—see Irvine et al.
Caffrey, Brian B.—see Braddon et al.
Cailliet, Gregor M., Linda K. Martin, James T. Harvey, David Kusher, and Bruce A. Welden, TR 8:179-188
_____, _____, David Kusher, Patricia Wolf, and Bruce A. Welden, TR 8:157-165
Caillouet, C., Jr., and D. Koi, TM SEFC-116
Caillouet, C. W., Jr., TM SEFC-147
_____—see Fontaine and Caillouet
_____, and D. B. Koi, TM SEFC-164
Caillouet, Charles W., and Dennis B. Koi, MFR 42(12):18
_____, _____, and William B. Jackson, MFR 42(12):28
Caillouet, Charles Wax, Jr., and Dennis Brian Koi, TM SEFC-96
Cairns, Stephen D., C 438
Callahan, Pamela—see Gunderson et al.
Callan, John G.—see Mendelsohn and Callan
_____, and John J. Ryan, MFR 42(6):32
Calman, J.—see Smedes et al.
Calvin, Natasha I.—see Ellis and Calvin
Campana, Steven E., FB 82:165
Campbell, A.—see Jamieson and Campbell
_____, and M. D. Eagles, FB 81:357
Campbell, Douglas W.—see Miller et al.
Capps, Oral, Jr., MFR 44(3):1
Caputi, N.—see Brown and Caputi
Caracciolo, Janice V., and Frank W. Steimle, Jr., S 766
Carey, A. G., Jr.—see Hogue and Carey
Carey, Andrew G., Jr.—see Carney and Carey
Carey, Francis G., and Bruce H. Robison, FB 79:277
Carls, Mark G.—see Rice et al.
Carlson, H. Richard, and Richard R. Straty, MFR 43(7):13
Carlson, K. L.—see Herrick and Carlson
Carney, Robert S., and Andrew G. Carey, Jr., FB 78:791
Carpenter, V. L.—see Schwartz et al.
Carr, Archie, Anne Meylan, Jeanne Mortimer, Karen Bjorndal, and Thomas Carr, TM SEFC-91
Carr, H. Arnold—see Amaral and Carr
Carr, Thomas—see Carr et al.
Carranza, Francisco—see Stevenson and Carranza
Carroll, Geoffrey M.—see Braham et al.
_____, and John R. Smithhisler, MFR 42(9-10):80
Carter, Gary R.—see Hain et al.
Casey, Harold W.—see Albert et al.
Casey, John G.—see Pratt and Casey; Pratt et al.
_____, and John J. Hoey, TR 31:15-19
_____, Harold L. Pratt, Jr., and Charles E. Stillwell, TR 8:189-191
Casey, John J.—see Medved et al.
Cass, Virginia L., MFR 47(1):36
_____—see Perrin et al.
Casselman, John M., TR 8:1-17
Castagna, Michael—see Kraeuter and Castagna
Cayré, Patrice M.—see Antoine et al.
_____, and Taib Diouf, TR 8:105-110
Celewycz, Adrian G.—see Jaenicke et al.
Chan, Brian—see Neilson et al.
Chaney, Ed—see Wahle and Chaney; Wahle et al.
Chang, Randolph—see Holland et al.
Chapman, Douglas G.—see Breiwick et al.
Cheng, Lanna, and Eric Shulenberger, FB 78:579
Chess, James R.—see Hobson et al.
Chester, Alexander J., TR 9
_____—see Hettler and Chester; Warlen and Chester
Chittenden, Mark E., Jr.—see DeVries and Chittenden; Geoghegan and Chittenden; Rockett et al.; Shlossman and Chittenden; Standard and Chittenden
Christensen, Darryl J., and Walter J. Clifford, FB 78:799
Christian, R. T., and L. James Lester, TM SEFC-137
Christman, M. C.—see Van Heukelem et al.
Clarke, Thomas A., FB 78:619; FB 80:287
_____—see Williams and Clarke
Clarke, W. Craig—see Wedemeyer et al.
Clausen, David M., FB 78:968; FB 81:637
_____, and Jeffrey T. Fujioka, TM F/NWC-76
Clawson, Harry Q. M.—see Brown et al.
Clifford, David A.—see Creaser and Clifford; Creaser et al.
Clifford, Walter J.—see Christensen and Clifford
Cobb, J. Stanley—see Richards et al.
Coe, James M.—see Holts and Coe; Jennings et al.
_____, and Richard W. Butler, TM SWFC-6
_____, David B. Holts, and Richard W. Butler, MFR 46(3):18; TR 13
_____, and Warren E. Stuntz, FB 78:535
Coffelt, R. J.—see Brown et al.
Coglianese, M. P.—see Neff et al.
Cohen, Daniel M., MFR 42(1):2
_____—see Yabe et al.
Cohn, Myra S.—see Marshall and Cohn
Colby, D. R., G. W. Thayer, W. F. Hettler, and D. S. Peters, TM SEFC-162
Colby, David R., Donald E. Hoss, and J. H. S. Blaxter, FB 80:567
Coleman, Essie M.—see Dragovich and Coleman
Colin, Patrick L., FB 80:853
Collette, Bruce B.—see Cressey et al.
_____, and Joseph L. Russo, FR 82:545
Collings, W. Stephen, Christine Cooper-Sheehan, Sally C. Hughes, and James L. Buckley, S 775:35-40
Collins, Jeff—see Bullard and Collins
Collins, L. Alan, and John H. Finucane, TR 6
Collins, Robson A.—see Love et al.
Colton, Douglas E., and William S. Alevizon, FB 81:148
Colton, J. B., Jr., J. L. Anderson, J. E. O'Reilly, C. A. Evans-Zetlin, and H. G. Marshall, TM F/NEC-38
Colton, John B., Jr., and Jacquelyn L. Anderson, TM F/NEC-24
Colvocoresses, J. A., and J. A. Musick, FB 82:295
Comiskey, C. E., TM SEFC-65
Compagno, L. J. V.—see Gruber and Compagno
Compeán-Jimenez, G., and F. X. Bard, TR 8:77-86
Concannon, Greg—see Ewing et al.
Condrey, Richard E., FB 82:449
Conklin, Robert B.—see Pratt et al.
Connally, David W.—see Schlotterbeck and Connally
Connors, Thomas J.—see Lane and Connors
Conover, David O., FB 83:331
_____, and Steven A. Murawski, FB 80:145
Conrad, Jim W., Harold J. Barnett, Fuad M. Teeny, and Richard W. Nelson, MFR 47(1):73
Conrad, Jon, Dale Squires, and Jim Kirkley, TM F/NWC-60
Conser, Ramon J.—see Beardsley and Conser
Conservation and Utilization Division, Northeast Fisheries Center, TM F/NEC-42
Consiglieri, Lewis—see Loughlin et al.
Cook, Steven K., TR 24

Coon, W. P., III—see Wenner et al.
Cooper, Richard A.—see Hulbert et al.; Meyer et al.
Cooper-Sheehan, Christine—see Collings et al.
Cornell, Lanny H.—see Odell et al.; White et al.
Corolla, R. T.—see Webb and Corolla
Costello, T.—see Klima et al.
Costello, T. J., D. M. Allen, and J. H. Hudson, TM SEFC-161
_____, and Lynn M. Pulos, TM SEFC-4
Coston-Clements, Linda, and Donald E. Hoss, TM SEFC-117
Court, William G., MFR 42(7-8):1
Cox, J. L.—see Wiebe et al.
Coyer, James A., FB 82:55
Craddock, James E.—see Robison and Craddock
Cramer, J. L., R. M. Nakamura, A. E. Dizon, and W. N. Ikehara, MFR 43(6):12
Crapo, C.—see Kolbe et al.
Crass, Dennis W., and Robert H. Gray, FB 80:158
Creaser, Edwin P., and David A. Clifford, FB 80:735
_____, _____, Michael J. Hogan, and David B. Sampson, S 767
Creed, Robert P., Jr., FB 83:711
Creel, Mischelle—see Divita et al.
_____, and Regina Divita, TM SEFC-87
Cressey, Hillary Boyle—see Cressey and Cressey
Cressey, Roger F., Bruce B. Collette, and Joseph L. Russo, FB 81:227
_____, and Hillary Boyle Cressey, FB 78:715
Cross, Jeffrey N., FB 83:195
Crow, Michael E.—see Lee et al.
Crowe, A. L.—see Parker et al.
Crowe, Barbara J., FB 82:427
Cubbage, James C.—see Rugh and Cubbage
Current, William L.—see Upton et al.

D

Dadswell, Michael J.—see MacDonald et al.
_____, Bruce D. Taubert, Thomas S. Squiers, Donald Marchette, and Jack Buckley, TR 14
Dahlheim, Marilyn—see Ljungblad et al.
_____, Teresa Bray, and Howard W. Braham, MFR 42(9-10):51
Danald, D. A.—see Lightner et al.
Danek, L. J., and M. S. Tomlinson, TM SEFC-40
Dangel, James R., Paul T. Macy, and Fred C. Withler, TM NWFC-1 Daniels, Robert A., FB 80:575
_____, and Peter B. Moyle, FB 81:647
Darcy, George H., C 448; C 449; S 748; TM SEFC-15; TR 19; TR 23; TR 26
_____, and Elmer J. Gutherz, TM SEFC-130
Dark, T. A., M. E. Wilkins, and K. Edwards, TM F/NWC-48
Dark, Thomas A.—see Edwards et al.; Nelson and Dark; Weinberg et al.
_____, Martin O. Nelson, Jimmie J. Traynor, and Edmund P. Nunnallee, MFR 42(3-4):17
Davis, B. M.—see Wiebe et al.
Davis, Gary E., FB 78:979
Davis, J. Connor—see Browder et al.
Dawirs, Ralph R.—see Anger and Dawirs
Dawley, Earl M., Richard D. Ledgerwood, and Alvin Jensen, TM F/NWC-74, TM F/NWC-75
Dawson, Chad P., and Bruce T. Wilkins, MFR 42(12):12
Dawson, Margaret A., FB 80:389
Dean, J. M.—see Radtke and Dean
Dean, John M.—see Wilson and Dean
DeBlanc, David—see Timko and DeBlanc
DeGange, Anthony R.—see Ainley et al.
Delamure, S. L., and A. S. Skriabin, TR 25:129-135
Delaney, Glenn—see Fogarty et al.
Delarm, Michael R.—see Basham et al.
_____, Larry R. Basham, Stephen W. Pettit, James B. Athearn, and Lt. John V. Barker, TM F/NWR-7
_____, and Einar Wold, TM F/NWR-9; TM F/NWR-12; TM F/NWR-13
DeLong, Robert L.—see Antonelis et al.; Loughlin et al.
Delyamure, Semyon L., Mikhail V. Yurakhno, Valentin N. Popov, Larry M. Shults, and Francis H. Fay, TR 12:61-65
DeMartini, E. E., and Robert K. Fountain, FB 79:547
DeMartini, Edward E.—see Allen and DeMartini; Larson and DeMartini
_____, Larry G. Allen, Robert K. Fountain, and Dale Roberts, FB 83:171
DeMaster, Douglas P., TR 12:77-80
Demory, Robert L.—see Golden et al.
Dennis, G.—see Howard et al.
Dery, Louise M.—see Smith et al.
DeVries, Douglas A., and Mark E. Chittenden, Jr., FB 80:487
Dewees, C. M.—see Bronstein et al.
Dickhoff, Walton W.—see Folmar et al.
_____, Craig Sullivan, and Conrad V. W. Mahnken, TR 27:5-9
Dickinson, John J., and Roland L. Wigley, S 746
_____, _____, Richard D. Brodeur, and Susan Brown-Leger, S 741
Dimock, C. W.—see Lake et al.
Diouf, Taib—see Cayre and Diouf
Ditton, Robert B., and David K. Loomis, MFR 47(1):43
Divita, Regina—see Creel and Divita
_____, Mischelle Creel, and Peter F. Sheridan, FB 81:396
Dixon, Robert—see Tester et al.
Dizon, A. E.—see Cramer et al.
Dizon, Andrew E.—see Gooding et al.; Kaya et al.; Matsumoto et al.
_____, and George H. Balazs, MFR 44(5):13
Dodrill, Jon W.—see Gilmore et al.
Doggett, Lee F.—see Larsen et al.
Donely, P.—see Parrish et al.
Dorsey, Eleanor—see Wursig et al.
Dotson, Ronald C., TM SWFC-8
_____—see Laurs et al.
Doulman, David J., and Andrew Wright, MFR 45(10-12):47
Doyle, Willard H.—see Martin et al.
Dragovich, Alexander, MFR 43(2):9
_____, and Essie M. Coleman, MFR 45(4-6):1
Draxler, A. F. J., A. Matte, R. Waldhauer, and J. E. O'Reilly, TR 32
Dubina, V. R., TR 25:33-34
Dudley, Richard G., and T. Glenn McGahee, FB 81:420
Duedall, Iver W.—see Woodhead et al.
Duncan, Bruce P.—see Peterson et al.
Duncan, Keith L.—see Winkler et al.
Duncan, P. B.—see Peterson et al.
Dunn, Daniel W.—see Fuss et al.
Dunn, Jean R., C 450; FB 81:23
_____—see Kendall and Dunn; Matarese et al.; Richardson et al.
Dupree, Harry K., C 447:23-25
Durbin, A. G.—see Durbin et al.

Durbin, Ann G.—see Durbin and Durbin
___, Edward G. Durbin, Peter G. Verity, and Thomas J. Smayda, FB 78:877
Durbin, Ann Gail, Edward G. Durbin, Thomas J. Smayda, and Peter G. Verity, FB 81:133
Durbin, E. G., A. G. Durbin, R. W. Langton, and R. E. Bowman, FB 81:437
Durbin, Edward G.—see Durbin et al.
___, and Ann G. Durbin, FB 79:601; FB 81:177
Durham, Floyd E., MFR 42(9-10):74
_____—see Braham et al.
Durkin, Joseph T.—see Emmett and Durkin; McCabe et al.
_____, Kurt D. Buchanan, and Theodore H. Blahm, MFR 46(1):22
_____, and Carl W. Sims, TM F/NWC-84
Duszynski, Donald W.—see Upton et al.
Dyer, Debra—see Gorga et al.
Dykstra, Jacob J.—see Rothschild et al.

E

Eagles, M. D.—see Campbell and Eagles
Earl, Paul M., MFR 42(1):26
Ebel, Wesley, J., FB 78:491
Ebeling, Alfred W., Ralph J. Larson, William S. Alevizon, and Richard N. Bray, FB 78:361
Eber, L. E., and Nancy Wiley, TM SWFC-24
Eber, Larry E., TM SWFC-18
Eberhardt, L. L., and J. M. Breiwick, MFR 42(9-10):27
Eberwine, James—see Ingham and Eberwine
Echeverria, Tina, and William H. Lenarz, FB 82:249
Edwards, K.—see Dark et al.
Edwards, Kathleen D., Thomas A. Dark, Robert French, Russell Nelson, Jr., and Janet Wall, TM F/NWC-11
Egorova, T. P., TR 25:75
Eisenberg, Max, Reba Mallman, and Haskell S. Tubiash, MFR 42(2):21
Ejsymont, L.—see Kelly et al.; Sherman et al.
Ejsymont, Leonard—see Richards et al.
Eldredge, L. G., TM SWFC-40
Eldridge, Maxwell B., Jeannette A. Whipple, and Michael J. Bowers, FB 80:461
Eldridge, P.—see Jones et al.
Eldridge, Peter J.—see Bolton et al.; Meaburn et al.
Ellertsen, B.—see Tilseth and Ellertsen
Elliott, Joel—see Shimek et al.
Ellis, Robert J., and Natasha I. Calvin, MFR 43(2):19
Emmett, Robert L.—see McCabe et al.
_____, and Joseph T. Durkin, MFR 47(3):21
Ennis, G. P., FB 79:796; FB 82:242, 244, 529
_____—see Taylor et al.
Epifanio, C. E.—see Van Heukelem et al.
Epperly, Sheryan P., and Walter R. Nelson, FB 82:446
Ernst, Robert C., Jr., TM SEFC-92
_____, and John W. Brown, TM SEFC-102
Estes, E.—see Brooks et al.
Estes, James A., and Vitali N. Gol'tsev, TR 12:67-76
Evans, R. H., D. R. McLain, and R. A. Bauer, MFR 43(6):1
Evans, William E.—see Leatherwood et al.
Evans-Zetlin, C. A.—see Colton et al.
Ewing, R. D., C. E. Hart, C. A. Fustich, and Greg Concannon, FB 82:157

F

Fable, William A., Jr.—see Johnson et al.; Saloman et al.; Sutherland and Fable
_____, Harold A. Brusher, Lee Trent, and Joe Finnegan, Jr., MFR 43(8):21
_____, and Lee Trent, TM SEFC-138
Faller, Kenneth H.—see Savastano et al.
Farber, Mark I.—see Baglin et al.
Fariña-Perez, A. C.—see González-Garcés and Fariña-Perez
Farr, Winston E.—see Gessel et al.
Fay, Francis H.—see Burns et al.; Delyamure et al.
_____, Yuri A. Bukhtiyarov, Samuel W. Stoker, and Larry M. Shults, TR 12:81-88
_____, and Gennadii A. Fedoseev, TR 12
____, G. Carleton Ray, and Arkadii A. Kibal'chich, TR 12:89-99
Fedoseev, Gennadii A., TR 12:49-54
_____—see Braham et al.; Burns et al.; Fay and Fedoseev
Fegley, Stephen R.—see Peterson et al.
Feldkamp, Steven D., FB 83:692
Feldman, Gene C., and Craig S. Rose, TM F/NWC-13
Fell, F. Julian—see Serafy and Fell
Ferguson, Scott—see Holland et al.
Fernholm, Bo, and Carl L. Hubbs, FB 79:69
Ferraro, Steven P., FB 78:455
Fey, M.—see Regenstein et al.
Fiedler, Paul C., Gary B. Smith, and R. Michael Laurs, MFR 46(3):1
Fiest, D. L.—see Boehm and Fiest
Finne, Gunnar—see Meinke et al.; Ward et al.
Finnegan, Joe, Jr.—see Fable et al.
Finucane, John H.—see Collins and Finucane
Fischer, Rahel—see Whipple et al.
Fiscus, Clifford H., MFR 44(2):1; TM F/NWC-65
_____—see Antonelis et al.; Kajimura et al.; Scheffer et al.; Stroud et al.
_____, and Roger W. Mercer, TM F/NWC-28
_____, David J. Rugh, and Thomas R. Loughlin, TM F/NWC-17
Flagg, Paul J.—see McHugh et al.
Flagg, Thomas J.—see Newcomb and Flagg
Flerx, William—see Smith et al.
Flescher, Donald D., C 431
Flierl, G. R., and J. S. Wroblewski, FB 83:313
Flint, R. Warren, and Nancy N. Rabalais, FB 79:737
Flores, Efren Ed. C.—see Hernando and Flores
Fogarty, Michael J., S 775; S 775:3-8
_____—see Richards et al.
_____, David V. D. Borden, and Howard J. Russell, FB 78:771
_____, Glenn Delaney, John W. Gillikin, Jr., John C. Poole, David E. Ralph, Paul G. Scarlett, Ronald W. Smith, and Stuart J. Wilk, TM F/NEC-18
_____, Martin A. Hyman, George F. Johnson, and Clement A. Griscom, S 775:23-28
_____, and Robert Lawton, S 775:9-14
Follette, L. Frank—see Shleser and Follett
Folmar, Leroy C., Walton W. Dickhoff, Waldo S. Zaugg, and Conrad V. W. Mahnken, C 447:7-13
Folson, W. Davis—see Brown and Folson
Fontaine, C. T., TM SEFC-158; TM SEFC-169
_____, and C. W. Caillouet, Jr., TM SEFC-152
Fonyo, Carolyn M., Joan A. Browder, and Susan L. Brunenmeister, TM SEFC-120

Ford, Robert J., MFR 46(3):44
Fountain, Robert K.—see DeMartini and Fountain; DeMartini et al.
Fox, Alfred C., TR 27:11-13
Fox, William W., Jr.—see Huntsman et al.
Fraidenburg, Michael E., MFR 42(3-4):54
Fraker, Mark A.—see Braham et al.; Wursig et al.
_____, and John R. Bockstoce, MFR 42(9-10):57
Francis, Robert C.—see Bailey and Francis
_____, and Anne B. Hollowed, MFR 47(2):95
Frank, Hilmer A., Mitchel E. Rosenfeld, Derrick H. Yoshinaga, and Wai-Kit Nip, MFR 46(2):40
_____, Derrick H. Yoshinaga, and Wai-Kit Nip, MFR 43(10):9
_____, _____, and I-Pai Wu, MFR 45(4-6):40
Freeman, Mary C., Nate Neally, and Gary D. Grossman, FB 83:645
French, Robert R.—see Edwards et al.; Murai et al.; Nelson et al.; Wall et al.
_____, Russell Nelson, Jr., and Janet Wall, MFR 43(5):36
Frere, Phyllis—see Setzler et al.
Frey, Herbert W.—see Huppert et al.; MacCall et al.
Friedman, Andrew J.—see Macleod et al.
Fritz, Lowell, W., and Dexter S. Haven, FB 81:697
Frost, Kathryn J.—see Bukhtiyarov et al.
_____, and Lloyd F. Lowry, FB 79:187; S 764
Fry, Brian, FB 79:337; FB 81:789
Fucik, K., and I. Show, TM SEFC-43
Fujii, T.—see Pearcy et al.
Fujioka, Jeffrey T.—see Clausen and Fujioka
Fukuhara, Osamu, TR 10:3-9
_____—see Nogami et al.
Fulton, Leonard A., and Roger E. Pearson, TM F/NWC-12
Fuss, Charles M., Jr., Daniel W. Dunn, and Robert M. Spraitz, MFR 42(11):19
Fustish, C. A.—see Ewing et al.
Fyfe, David—see Shimek et al.

G

Gabriel, Wendy L., and William G. Pearcy, FB 79:749
_____, and A. V. Tyler, MFR 42(3-4):83
Gadbois, Donald F., and Richard S. Maney, FB 81:389
Gadomski, Dena M.—see Boehlert et al.
Gaevskaya, A. V.—see Alioshkina et al.; Naidenova et al.
_____, A. A. Kovaliova, and G. N. Rodjuk, TR 25:25-28
Galaktionov, K. F., TR 25:111
Gallaway, B., TM SEFC-48
_____—see Howard et al.
_____, and L. Martin, TM SEFC-37
_____, and L. Reitsema, TM SEFC-67
Gallaway, D. J.—see Owens et al.
Gandy, Walter F.—see Jennings et al.; White et al.
Gangmark, Harold A.—see Murai et al.
Garrett, R. E.—see Brown et al.
Garrick, J. A. F., C 445; TR 34
Gaskin, D. E.—see Smith et al.
Gaskin, David E.—see Read and Gaskin
_____, and Alan P. Watson, FB 83:427
Geen, Glen H.—see Neilson and Geen; Neilson et al.
Gendron, Irene S., MFR 42(1):50
Gentry, Roger L., and John R. Holt, S 758
Geoghegan, Paul, and Mark E. Chittenden, Jr., FB 80:523
George A.—see Wolke and George
George, C. J.—see Wolke et al.
George, K. A.—see Al-Judaimi et al.
Georgianna, Daniel, and Richard Ibara, MFR 45(1):1
Geraci, J. R., and D. J. St. Aubin, MFR 42(11):1
Gerrodette, Tim, Daniel Goodman, and Jay Barlow, FB 83:207; TM SWFC-28
Gerry, Lawrence R.—see Weinstein et al.
Gessel, Michael H., Winston E. Farr, and Clifford W. Long, MFR 47(3):38
Gharrett, Jessica A.—see Rice et al.
Ghichenok, L. A., TR 25:73
Gibbs, B.—see Wespestad et al.
Gibson, D. M., FB 80:157
Giddings, George G., MFR 42(1):8
_____—see Otwell and Giddings
Gilbert, James R.—see Kraus et al.
Gillespie, Samuel M.—see Hixon et al.
Gillikin, John W., Jr.—see Fogarty et al.
Gilmore, R. Grant, Jon W. Dodrill, and Patricia A. Linley, FB 81:201
Giorgi, A. E., TM F/NWC-56
Godbout, Robert—see Holt et al.
Goebel, Michael E.—see Hobbs and Goebel
Goiney, B. J., Jr.—see Livingston and Goiney
Goiney, Bernard J., Jr.—see Gunderson et al.; Livingston and Goiney
Gol'tsev, Vitali N.—see Burns and Gol'tsev; Estes and Gol'tsev
Goldberg, Stephen R., FB 78:977; FB 79:561; FB 80:906
_____, Victor Hugo Alarcon, and Jurgen Alheit, FB 82:443
_____, and Hillary Herring-Dyal, TM SWFC-14
Golden, James T., Robert L. Demory, and William H. Barss, MFR 42(3-4):41
Goldmintz, Daniel—see Babinchak et al.; Richards et al.
González-Garcés, A., and A. C. Fariña-Perez, TR 8:117-122
Goodger, Timothy—see Higgins et al.
Gooding, Reginald M., MFR 46(2):18; MFR 47(1):27
_____, William H. Neill, and Andrew E. Dizon, FB 79:31
Goodman, Daniel—see Gerrodette et al.
Gordy, Herbert R.—see Powell and Gordy
Gore, Robert H.—see Andryszak and Gore
_____, and Liberta E. Scotto, FB 80:501
Gores, Kurt X.—see Prentice et al.
Gorga, Carmine—see Ronsivalli et al.
_____, and Kevin J. Allen, MFR 42(1):44
_____, and Louis J. Ronsivalli, MFR 44(2):11
_____, Burton L. Tinker, Debra Dyer, and Joseph M. Mendelsohn, MFR 44(11):1
Gosho, Merrill E., Dale W. Rice, and Jeffrey M. Breiwick, MFR 46(4):54
Gosselink, James G.—see Bishop et al.
Gould, Rowan W., C 447:21-22
_____, Aldo N. Palmisano, Stanley D. Smith, Conrad V. W. Mahnken, Wally S. Zaugg, and Earl F. Prentice, TR 27:15-19
Goulet, J. R.—see Sherman et al.
Govoni, John J., FB 81:895
Grabe, Stephen A., John W. Shipman, and Weldon S. Bosworth, S 775:53-57
Graham, Joseph J.—see Townsend and Graham
Grant, John J., Kenneth C. Wilson, Allen M. Grover, and Heidi A. Togstad, MFR 44(6-7):53
Grant, W. E., W. L. Griffin, and J. P. Warren, MFR 43(11):1

Grant, W. Stewart, Richard Bakkala, Fred M. Utter, David J. Teel, and Tokimasa Kobayashi, FB 81:667
Grant, William E.—see Krauthamer et al.
Gray, Robert H.—see Crass et al.; Haynes and Gray
Green, J. R.—see Sherman et al.
Greenstein, Daniel M., Leigh C. Alexander, and Daryl E. Richter, S 775:59-61
Griffin, W. L.—see Grant et al.
Griffin, Wade L.—see Hixon et al.; Krauthamer et al., Tettey and Griffin; Tettey et al.; Warren and Griffin
Grimes, C. B.—see Katz et al.; Turner et al.
_____, K. W. Able, and S. C. Turner, MFR 42(11):13
_____, S. C. Turner, and K. W. Able, FB 81:663
Grimes, Churchill B.—see Huntsman et al.; Shepherd and Grimes
_____, and Gene R. Huntsman, FB 78:137
Griscom, Clement A.—see Fogarty et al.
Griswold, Carolyn A., S 751
_____—see Prezioso and Griswold
_____, and Thomas W. McKenney, FB 82:77
_____, and Jerome Prezioso, FB 78:945
Groess, H. E.—see Jones et al.
Groninger, Herman S.—see Lee et al.; Patashnik et al.; Prentice et al.
Grossman, Gary D.—see Freeman et al.
_____, Michael J. Harris, and Joseph E. Hightower, FB 83:443
Grove, Robert S., MFR 44(6-7):24
Grover, Allen M.—see Grant et al.
Grozdilova, T. A.—see Ivanchenko and Grozdilova
Gruber, S. H., and L. J. V. Compagno, FB 79:617
Gruber, Samuel H., and Robert G. Stout, TR 8:193-205
Grussendorf, Mark James, FB 79:383
Guillemot, Patrick J., Ralph J. Larson, and William H. Lenarz, FB 83:299
Gulland, J. A.—see Rothschild and Gulland
Gunderson, Donald R.—see Wishard et al.
_____, Pamela Callahan, and Bernard Goiney, MFR 42(3-4):74
_____, and Terrance M. Sample, MFR 42(3-4):2
Gutherz, Elmer J.—see Darcy and Gutherz
Guthrie, James F., and Curtis W. Lewis, MFR 44(1):16
Guy, Stewart—see Shimek et al.

H

Haar, Robert T.—see Swartzman and Haar
Habib, G.—see Lester et al.
Hacunda, John S., FB 79:775
_____—see Barker et al.
Hain, James H. W., Gary R. Carter, Scott D. Kraus, Charles A. Mayo, and Howard E. Winn, FB 80:259
_____, Martin A. M. Hyman, Robert D. Kenney, and Howard E. Winn, MFR 47(1):13
Hale, Malcolm B., MFR 46(1):19
_____, and Thomas Brown, MFR 45(4-6):45
_____, Jeanne D. Joseph, and Gloria T. Seaborn, TM SEFC-75
_____, and Melvin E. Waters, MFR 43(12):18
Hamm, David C., and Beany M. Slater, TM SEFC-5
Hammond, P. S.—see Hohn and Hammond
Hampton, J.—see Majkowski and Hampton
Hampton, John—see Majkoswki and Hampton
Hanan, Doyle A., FB 81:107
Hankin, David G., FB 78:555
Hanlon, Roger T.—see Hixon et al.
Hanna, Rifaat G. M., MFR 46(3):71
Hanna, S. S., TM F/NWC-47
Hansen, Larry J., William F. Perrin, Anatoli S. Sokolov, and James G. Mead, TR 12:101-104
Hardy, Ronald W., C 447:15-19
Hargis, William J., Jr., TR 25; TR 25:1-3; TR 25:101-107
Harmon, Jerrel R., and Donn L. Park, MFR 42(6):25
Harris, Larry G.—see Hulbert et al.
Harris, Michael J.—see Grossman et al.
Harrison, F. L.—see Rice et al.
Hart, C. E.—see Ewing et al.
Harvey, James T.—see Cailliet et al.
Haskin, Harold H.—see Botton and Haskin
Hassenmiller, K.—see Butcher et al.
Hausknecht, K. A., TM SEFC-29
Haven, Dexter S.—see Fritz and Haven
Hawes, Sandra D., TM SWFC-21
Haynes, Elizabeth D., TM OF-5
Haynes, Evan B., FB 79:177, 421; FB 80:305; FB 82:315, 523; FB 83:253; S 765
_____, and Steve E. Ignell, FB 81:890
Haynes, James M., and Robert H. Gray, FB 78:185; FB 79:367
Heard, William R., TR 27:21-28
_____—see Bailey and Heard
Hedgepeth, John B., TM SWFC-39
Hedgepeth, Marion Y., and John W. Jolley, Jr., TR 8:131-135
Heifetz, J.—see Johnson and Heifetz
Heindl, Alex L.—see Koski et al.
Heinle, Donald R.—see Ulanowicz et al.
Helfman, Gene S., Earl L. Bozeman, and Edward B. Brothers, FB 82:519
Helvey, Mark, MFR 47(1):18
Henderson, John R., MFR 46(3):59
Hendricks, Jerry D.—see Meyers and Hendricks
Hendrickx, M. E., FB 82:715
Hendrix, Sharon D.—see Kaya et al.
Hennemuth, Richard C.—see Rothschild et al.
_____, Brian J. Rothschild, Lee G. Anderson, and William A. Lund, Jr., TM F/NEC-1
Hernando, Aniceto M., Jr., and Efren Ed. C. Flores, MFR 43(1):13
Herrick, S.—see Parrish et al.
Herrick, S. F., Jr., and K. L. Carlson, TM SWFC-57
Herrick, Samuel F., Jr., MFR 46(1):1
_____, and Steven Koplin, MFR 46(4):65
Herring-Dyal, Hillary—see Goldberg and Herring-Dyal
Hersey, Ronald L.—see Bibb et al.
Hershberger, William K., and Robert N. Iwamoto, TR 27:29-32
Heslinga, Gerald A., Obichang Orak, and Marcus Ngiramengior, MFR 46(4):73
Hess, Deb—see Palko et al.
Hess, Steven C.—see Toll and Hess
Hettler, W. F.—see Colby et al.
Hettler, William F., FB 82:85
_____, and Alexander J. Chester, FB 80:761
Hewitt, Roger P.—see Smith and Hewitt; Smith et al.
_____, FB 83:187; TR 36:51-53; TR 36:95-99
Higgins, Bruce E., Ruth Rehfus, John B. Pearce, Robert J. Pawlowski, Robert L. Lippson, Timothy Goodger, Susan M. Roe, and Douglas W. Beach, TM F/NEC-37
High, William L., MFR 42(2):26
Hightower, Joseph E.—see Grossman et al.
Hilderbrand, K.—see Kolbe et al.

Hinde, P.—see Wenner et al.
Hines, Anson H., and Thomas R. Loughlin, FB 78:159
_____, Kenric E. Osgood, and Joseph J. Miklas, FB 83:467
Hiroi, Osamu, TR 27:45-53
Hirschberger, W. A., and G. B. Smith, TM F/NWC-44
Hirschberger, Wendy A., MFR 42(2):8; TM F/NWC-85; TM F/NWC-94
_____—see Smith et al.; Walters et al.
Hirtzer, Pam—see Boehm and Hirtzer
Hixon, Raymond F., Roger T. Hanlon, Samuel M. Gillespie, and Wade L. Griffin, MFR 42(7-8):44
Hjort, R. C., and C. B. Schreck, FB 80:105
Hobart, W., MFR 44(6-7):1
Hobbs, Larry J.—see Leatherwood et al.
_____, and Michael E. Goebel, TM F/NWC-21
Hobson, Edmund S., William N. McFarland, and James R. Chess, FB 79:1
Hodson, Ronald G.—see Weinstein et al.
Hoenig, John M., FB 81:898
Hoey, John J.—see Casey and Hoey
Hoff, James G.—see Smith et al.
Hoffman, E. J., and J. G. Quinn, S 751:8-12
Hogan, Michael J.—see Creaser et al.
Hogue, E. W., and A. G. Carey, Jr., FB 80:555
Hohn, Aleta A.—see Barlow and Hohn; Myrick et al.; Reilly et al.
_____, and P. S. Hammond, FB 83:553
Holland, Kim, Richard Brill, Scott Ferguson, Randolph Chang, and Reuben Yost, MFR 47(4):26
Hollaway, S. L.—see Baxter and Hollaway
_____, and L. F. Sullivan, TM SEFC-89
Hollaway, Stephen L., and K. Neal Baxter, TM SEFC-78
Holley, H.—see Savastano and Holley
Holley, Hillman—see Savastano et al.
Hollingsworth, John E.—see Massey and Hollingsworth
Hollowed, Anne B.—see Francis and Hollowed
Holt, Brian, TM SEFC-97
Holt, Joan, Robert Godbout, and C. R. Arnold, FB 79:569
Holt, John R.—see Gentry and Holt
Holt, R. S.—see Barlow and Holt
Holt, Rennie S., TM SWFC-27; TM SWFC-29
_____, and Joseph E. Powers, TM SWFC-23
Holt, Scott A., and Connie R. Arnold, FB 80:644
Holts, Dave, MFR 47(3):48
Holts, David B., TM SWFC-3
_____—see Coe et al.
_____, and James M. Coe, TM SWFC-25
Hooper, R. G.—see Taylor et al.
Hopson, Debra J.—see Ward et al.
Horn, Michael H., FB 78:759
Horton, Howard F.—see Maule and Horton
Hose, Jo Ellen—see Winkler et al.
Hoss, D. E., and G. Phonlor, FB 82:513
Hoss, Donald E.—see Colby et al.; Coston-Clements and Hoss
Houde, Edward D.—see Berkeley and Houde
Houle, Clifford R.—see Stout et al.
Howard, Dorothy W., and Cecelia S. Smith, TM F/NEC-25
Howard, R., G. Boland, B. Gallaway, and G. Dennis, TM SEFC-39
Howe, N. R., TM SEFC-70
Howe, Stavros, and Wayne Leathem, TM F/NEC-32
Howell, W. Huntting, FB 78:731; FB 81:341
Huang, W.—see Brooks et al.
Hubbs, Carl L.—see Fernholm and Hubbs
Huber, Harriet R.—see Ainley et al.
Hudgins, Linda L., MFR 42(2):16
Hudson, J. H.—see Costello et al.
Hueckel, Gregory J., and R. Lee Stayton, MFR 44(6-7):38
Hughes, J. B., and A. Crosby Longwell, S 751:21-29
Hughes, S. E.—see Parks and Hughes; Zenger and Hughes
Hughes, Sally C.—see Collings et al.
Hughes, Steven E., MFR 43(1):26
Hui, Clifford A., FB 83:472
Hulberg, Larry W.—see Oliver et al.
Hulbert, Alan W., Kenneth J. Pecci, Jonathan D. Witman, Larry G. Harris, James R. Sears, and Richard A. Cooper, TM F/NEC-14
Hultin, H. O.—see Regenstein et al.
Hunte, Wayne—see Oxenford and Hunte
_____, and Robin Mahon, FB 81:654
Hunter, J. Roe, TR 36:63-65
_____, and Roderick Leong, FB 79:215
_____, Nancy C. H. Lo, and Roderick J. H. Leong, TR 36:67-77
_____, and Beverly J. Macewicz, FB 83:119; TR 36:79-94
Hunter, John R., and Carol A. Kimbrell, FB 78:89, 811
_____, and Ragan Nicholl, FB 83:235
Hunter, Patrick J.—see Barnett et al.; Stone et al.
Huntsman, Gene R.—see Grimes and Huntsman; Tester et al.
_____, Charles S. Manooch III, and Churchill B. Grimes, FB 81:679
_____, William R. Nicholson, and William W. Fox, Jr., TM SEFC-80
Huppert, D. D., FB 78:267
Huppert, Daniel D., TM FC-32
_____—see MacCall et al.
_____, Alec D. MacCall, Gary D. Stauffer, Herbert W. Frey, and Jane A. McMillan, TM SWFC-1
Hurley, Geoffrey V., MFR 42(7-8):15
Hurley, Peter C. F.—see Radtke and Hurley
_____, and T. Derrick Iles, TR 8:71-75
Husby, D. M., and G. R. Seckel, S 742
Husby, David M.—see Nelson and Husby
Hyman, Martin A.—see Fogarty et al.; Hain et al.; Kenney et al.

I

Ibara, Richard—see Georgianna and Ibara
Ignell, Steve E.—see Haynes et al.
Ikeda, Ikuo—see Low and Ikeda
Ikehara, W. N.—see Cramer et al.
Iles, T. Derrick—see Hurley and Iles
Ingham, Merton C., TM F/NEC-17
_____, and James Eberwine, TM F/NEC-31
Ingraham, W. James, Jr.—see Swan and Ingraham
Irie, Takahiko, TR 27:55-65
Irvine, A. B., R. S. Wells, and M. D. Scott, FB 80:135
Irvine, A. Blair, John E. Caffin, and Howard I. Kochman, FB 80:621
_____, Michael D. Scott, Randall S. Wells, and John H. Kaufmann, FB 79:671
Ito, D. H., and J. W. Balsiger, TM F/NWC-52
Ito, Daniel H., TM F/NWC-62
_____—see Balsiger et al.
Itzkowitz, Norman, and J. R. Schubel, FB 81:913
Ivanchenko, O. F., and T. A. Grozdilova, TR 25:65
Iverson, Edwin S.—see Jory and Iverson

Iwamoto, Robert N.—see Hershberger and Iwamoto
Iwamoto, Tomio—see Yabe et al.

J

Jackson, William B.—see Caillouet et al.
Jaenicke, Herbert W., Adrian G. Celewycz, Jack E. Bailey, and Joseph A. Orsi, MFR 46(3):62
Jafri, A. K.—see Al-Judaimi et al.
Jahn, Andrew E.—see Barnett et al.
Jamieson, G. S., and A. Campbell, FB 83:575
Jarrell, Gordon H.—see Braham et al.
Jearld, A., Jr.—see Rice et al.; Ropes et al.; Smith et al.
Jennings, Jacqueline G.—see White et al.
_____, James M. Coe, and Walter F. Gandy, MFR 43(11):16
Jensen, Alvin—see Dawley et al.
Jessee, Bill—see MacCall et al.
Jiménez-Colmenero, J.—see Borderias et al.
Johansen, P. H.—see Peterson et al.
Johnson, Allyn G., TM SEFC-76; TR 8:111-115
_____—see Barger and Johnson
_____, William A. Fable, Jr., Mark L. Williams, and Lyman E. Barger, FB 81:97
_____, and Carl H. Saloman, FB 82:485
Johnson, Anne C.—see Larsen et al.
Johnson, Brian W.—see Johnson and Johnson
_____, and Patricia A. Johnson, TM SWFC-49
Johnson, Emily Z.—see Johnson and Johnson
Johnson, George F.—see Fogarty et al.
Johnson, James H., FB 78:549
_____, and Emily Z. Johnson, FB 79:370
_____, and Allen A. Wolman, MFR 46(4):30
Johnson, James R., and Joseph G. Loesch, FB 81:323
Johnson, Karen L.—see Lange and Johnson
Johnson, M., TM SEFC-66
Johnson, M. F., TM SEFC-68
Johnson, Mary L.—see Benirschke et al.
Johnson, Patricia A.—see Johnson and Johnson
_____, and Brian W. Johnson, TM SWFC-50
Johnson, Phyllis T., FB 83:497
Johnson, S. W., and J. Heifetz, TM F/NWC-73
Joll, L. M.—see Morgan et al.
Jolley, John W., Jr.—see Hedgepeth and Jolley
Jones, A. C.—see Zuboy et al.
_____, H. E. Groess, K. Newlin, J. R. Zuboy, L. L. Massey, P. Eldridge, and D. Tidwell, TM SEFC-53
Jones, Albert C.—see Weeks and Jones
_____, and Edward F. Klima, TM SEFC-135
_____, _____, and John R. Poffenberger, MFR 44(9-10):1
_____, and James R. Zweifel, MFR 44(9-10):50
Jones, Cynthia, FB 83:289
Jones, Douglas S.—see Ropes et al.
Jones, K. A.—see Owens et al.
Jones, Linda L.—see Ainley et al.
Jory, Darryl E., and Edwin S. Iversen, MFR 47(4):1
Joseph, Jeanne D., MFR 47(3):30
_____—see Hale et al.
_____, and Gloria Seaborn, TM SEFC-95
Jossi, Jack W.—see Smith and Jossi
_____, and Robert R. Marak, TM F/NEC-21
Joyce, Gerald G., John V. Rosapepe, and Junroku Ogasawara, FB 80:401
Juanico, Marcelo, MFR 42(7-8):10
Judy, Mayo H.—see Lewis and Judy
_____, and Robert M. Lewis, S 774
June, J. A.—see Bakkala et al.
June, Jeffrey—see Wespestad et al.
Jung, Marvin—see Whipple et al.

K

Kabata, Z., and D. J. Whitaker, MFR 47(2):55
Kajimura, H.—see Lander and Kajimura
Kajimura, Hiroshi, S 779
_____—see Stroud et al.
_____, Clifford H. Fiscus, and Richard K. Stroud, TM F/NWC-2
Kan, Ting T.—see Bond et al.
Kanazawa, Akio, TR 16:3-7
_____, Shin-ichi Teshima, Mineshi Sakamoto, Hikaru Matsubara, and Takemitsu Abe, TR 16:71-72
Kane, Joseph, FB 80:631
Kang, Ingrid—see Myrick et al.
Kappenman, Russell F., FB 79:95; TM F/NWC-15
Karinen, John F.—see Rice et al.
Kato, Mamoru, TR 27:67-73
Kato, Susumu, and Stephen C. Schroeter, MFR 47(3):1
Katz, Barbara—see Brown et al.
Katz, S. J., C. B. Grimes, and K. W. Able, FB 81:41
Kaufmann, John H.—see Irvine et al.
Kaya, Calvin M., Andrew E. Dizon, and Sharon D. Hendrix, FB 79:185
_____, _____, _____, Thomas K. Kazama, and Martina K. K. Queenth, FB 80:393
Kaylor, John D.—see Ronsivalli et al.
_____, and Robert J. Learson, S 769
Kazachenko, V. N., and V. M. Titar, TR 25:85-88
Kazama, Thomas K.—see Kaya et al.; Matsumoto et al.
Kelleher, S. D.—see Regenstein et al.
Keller, Cynthia L.—see Ampola and Keller
Kelley, Sharon—see Potthoff and Kelley; Richards et al.
Kelly, George F.—see Lux et al.
Kelly, S., T. Potthoff, W. J. Richards, and L. Ejsymont, TM SEFC-167
Kemmerer, Andrew J., Robert E. Timko, and Samuel B. Burkett, TM SEFC-112
Kendall, Arthur W., Jr.—see Sherman et al.
_____, and Jean R. Dunn, TR 20
_____, and N. A. Naplin, FB 79:705
_____, and Beverly Vinter, TR 2
Kenney, Elizabeth—see Norton et al.
Kenney, Robert D.—see Hain et al.
_____, Martin A. M. Hyman, and Howard E. Winn, TM F/NEC-41
Keser, Milan, Donald F. Landers, Jr., and Jeffrey D. Morris, S 770
Keyes, Raymond S.—see Le Boeuf et al.; Webb and Keyes
Khilnani, Arvind, FB 78:973
Kibal'chich, Arkadii A.—see Fay et al.
Kimbrell, Carol A.—see Hunter and Kimbrell
Kimura, Daniel K.—see Balsiger et al.
Kimura, Makota—see Myrick et al.
King, Katherine, TM F/NWR-15
King, Michael G., MFR 43(12):10
Kirkley, James E.—see Sissenwine and Kirkley
Kirkley, Jim—see Conrad et al.

Kito, Hitoshi, 442:7-12
Kleiber, P.—see Parrish et al.
Kleppel, G. S., and E. Manzanilla, FB 81:154
Klima, E. F., K. N. Baxter, and F. J. Patella, TM SEFC-156
_____, T. Costello, T. W. Roberts, G. A. Matthews, and F. J. Patella, TM SEFC-104
Klima, Edward F.—see Jones and Klima; Jones et al.
_____, K. Neal Baxter, Frank J. Patella, and Geoffrey A. Matthews, TM SEFC-108; TM SEFC-136
_____, Kenneth N. Baxter, and Frank J. Patella, Jr., MFR 44(9-10):16
_____, and Frank J. Patella, MFR 47(4):11
_____, and Richard B. Roe, TM SEFC-2
Klimley, A. Peter, and Donald R. Nelson, FB 79:356
Knaggs, Eric H.—see MacCall et al.
Knechtel, C. D., and L. J. Bledsoe, TM F/NWC-50
Knechtel, Charles D., and Lewis J. Bledsoe, TM F/NWC-19
Knight, Margaret D., FB 78:313
_____, and Makoto Omori, FB 80:217
Knott, D. M.—see Wenner et al.
Kobayashi, Tokimasa—see Grant et al.
Kochman, Howard I.—see Irvine et al.
Koganezawa, Akimitsu, and Minoru Sasaki, TR 27:75-81
Koi, D.—see Caillouet and Koi
Koi, D. B., TM SEFC-153
_____—see Caillouet and Koi
Koi, Dennis B.—see Caillouet and Koi; Caillouet et al.; Matthews et al.
Koi, Dennis Brian—see Caillouet and Koi
Kolbe, E., C. Crapo, and K. Hilderbrand, MFR 47(4):33
Kolbe, Edward—see Lee and Kolbe
Kolz, A. Lawrence—see Timko and Kolz
Konovalov, S. M., and T. E. Butorina, TR 25:35-38
Koplin, Steven—see Herrick and Koplin
Korn, Sid—see Rice et al.
Korotaeva, V. D., TR 25:63-64
Korson, Charles S., TM F/SWR-004; TM F/SWR-005; TM F/SWR-006; TM F/SWR-007; TM F/SWR-008; TM F/SWR-009
_____, and Wesley Silverthorne, TM F/SWR-010
Koski, Charles—see Pettit and Koski
Koski, Charles H., Stephen W. Pettit, James B. Athearn, and Alex L. Heindl, TM F/NWR-11
Koslow, J. Anthony, FB 79:131
Kotchian-Prentiss, N. M.—see McFarland et al.
Kouloheras, Elizabeth—see Lawton et al.
Koury, Barbara—see Patashnik et al.
Kovaliova, A. A.—see Alioshkina et al.; Gaevskaya et al.
_____, and S. S. Schulman, TR 25:55-58
Kozloff, P., TM F/NWC-37
Kozloff, Patrick, TM F/NWC-71; TM F/NWC-78
Kraeuter, John N., and Michael Castagna, FB 78:538
Krasin, V. K., TR 25:59-60
Kraus, Scott D.—see Hain et al.
_____, James R. Gilbert, and John H. Prescott, FB 81:910
Krauthamer, Judith T., William E. Grant, and Wade L. Griffin, MFR 46(2):53
Krieger, Kenneth J., MFR 44(3):18
_____, and Bruce L. Wing, TM F/NWC-66
Krogman, B. D., and D. J. Rugh, TM F/NWC-45
Krogman, Bruce D., MFR 42(9-10):30
_____—see Braham et al.
Krouse, Jay S., S 747
Kudo, George—see Nelson et al.; Patashnik et al.
Kurata, Hiroshi, Kunihiko Shigueno, and Kenro Yatsuyanagi, TR 16:9-15
Kurochkin, Yu. V., TR 25:15-18
Kusher, David—see Cailliet et al.
Kwok, Josephine—see Barnett et al.
Kyle, B.—see Lake et al.

L

Laevastu, T., TM F/NWC-38
_____, and R. J. Marasco, TM F/NWC-41
Laevastu, Taivo, and Richard Marasco, TM F/NWC-27
Lake, J. L., C. W. Dimock, C. Norwood, R. Bowen, and B. Kyle, S 751:5-8
Lamberson, P. B.—see Boehlert et al.
Lander, R. H., TM F/NWC-3; TM F/NWC-4
_____, and H. Kajimura, TM F/NWC-5
Landers, Donald F., Jr.—see Keser et al.
Landingham, Joyce H.—see Orsi and Landingham
Landry, A. M., Jr., and H. W. Armstrong, TM SEFC-28
Lane, J. Perry, and Thomas J. Connors, MFR 46(2):36
_____, John J. Ryan, and Robert J. Learson, MFR 46(3):76
Lang, George E., Jr.—see Brousseau et al.
Lange, A. M. T.,and M. P. Sissenwine, MFR 42(7-8):23
Lange, Anne M. T., and Karen L. Johnson, S 745
_____, and Joan E. Palmer, TM F/NEC-39
Langton, R. W.—see Durbin et al.
Langton, Richard W., and Ray E. Bowman, FB 80:745; FB 81:15; S 740; S 749
Lanier, Tyre C., MFR 46(2):43
LaPlace, Joseph A.—see Olsen and LaPlace
Laroche, Joanne Lyczkowski, FB 80:827
_____—see Rosenberg and Laroche
_____, and Sally L. Richardson, FB 78:603
_____, _____, and Andrew A. Rosenberg, FB 80:93
Laroche, Wayne A., FB 78:897
_____, and Sally L. Richardson, FB 79:231
Larsen, Peter F., Anne C. Johnson, and Lee F. Doggett, TM F/NEC-19
Larson, Ralph J.—see Ebeling et al.; Guillemot et al.
_____, and Edward E. DeMartini, FB 82:37
Lasker, Reuben, TR 36; TR 36:1-3
_____—see Sherman et al.
Laurence, G. C., and R. G. Lough, TM F/NEC-36
Laurs, R. M—see Parrish et al.
Laurs, R. Michael—see Fiedler et al.
_____, Ronald J. Lynn, Robert Nishimoto, and Ronald Dotson, TM SWFC-10
_____, and Jerry A. Weatherall, FB 79:293
Lavenberg, Robert J.—see Love et al.
Lawton, Robert—see Fogarty and Lawton
_____, Elizabeth Kouloheras, Phillips Brady, Wendell Sides, and Mando Borgatti, S 775:47-52
Le Boeuf, Burney J., Marianne Riedman, and Raymond S. Keyes, FB 80:891
Learson, Robert J.—see Kaylor and Learson; Lane et al.
Leathem, Wayne—see Howe and Leathem
Leatherwood, Stephen—see Antonelis et al.; Braham et al.; Ljunblad et al.
_____, Randall R. Reeves, William F. Perrin, William E. Evans, and Larry Hobbs, C 444

Lebedev, B. Iv., TR 25:77
Ledgerwood, Richard D.—see Dawley et al.
Lee, Dennis W.—see Brothers et al.; Prince and Lee
_____, Eric D. Prince, and Michael E. Crow, TR 8:61-69
_____, _____, and Walter C. Mann, TM SEFC-113
Lee, J. S., and Edward Kolbe, MFR 44(3):12
Lee, Kang-Ho, Herman S. Groninger, and John Spinelli, MFR 43(3):14
Leek, Steve L.—see McCabe et al.
Leithiser, Ronald—see MacCall et al.
Lemberg, Norman A.—see Trumble et al.
Leming, Thomas D., TM SEFC-6
_____—see Brucks et al.
Lenarz, William H., MFR 42(3-4):34
_____—see Baglin et al.; Echeverria and Lenarz; Guillemot et al.
_____, and Peter B. Adams, FB 78:659
Leong, J. K.—see McLellan and Leong
Leong, Jorge K.—see McLellan and Leong
Leong, Roderick J. H.—see Hunter and Leong; Hunter et al.
Lester, L. James—see Christian and Lester
Lester, R. J. G., A. Barnes, and G. Habib, FB 83:343
Lewis, Curtis W.—see Guthrie and Lewis
Lewis, Robert M.—see Judy and Lewis
_____, and Mayo H. Judy, FB 81:405
_____, and Charles M. Roithmayr, FB 78:947
Lewis, T. James—see Ainley et al.
Libby, David A., FB 79:207; FB 80:902; FB 83:696
Licciardello, J. J., E. M. Ravesi, and M. G. Allsup, MFR 47(1):78
Licciardello, Joseph J., MFR 42(1):21; MFR 45(2):1
_____—see Ravesi et al.
_____, Elinor M. Ravesi, and Michael G. Allsup, MFR 42(1):55; MFR 44(8):15
Lightner, D. V., R. M. Redman, D. A. Danald, R. R. Williams, and L. A. Perez, TR 16:25-33
Lindall, William N., Jr., and Gordon W. Thayer, MFR 44(12):18
Linley, Patricia A.—see Gilmore et al.
Lippson, Robert L.—see Higgins et al.
Lipton, Douglas W.—see McHugh et al.
Liscom, Kennth L., Gerald E. Monan, Lowell C. Steuhrenberg, and Pamela J. Wilder, TM F/NWC-81
Livingston, P. A., TM F/NWC-43
_____, and M. S. Alton, TM F/NWC-32
_____, and K. M. Bailey, MFR 47(2):16
_____, and B. J. Goiney, Jr., TM F/NWC-54
Livingston, Patricia A., FB 81:629; MFR 47(1):9
_____, and Bernard J. Goiney, Jr., TM F/NWC-63
Ljungblad, D. K., S. Leatherwood, and M. E. Dahlheim, MFR 42(9-10):86
Lo, Nancy C. H., FB 83:137; TM SWFC-31; TR 36:43-50
_____—see Hunter et al.; Smith and Lo
_____, Joseph E. Powers, and Bruce E. Wahlen, FB 80:396
Loesch, Joseph G.—see Johnson and Loesch
Long, Clifford W.—see Gessel et al.; McCabe et al.
Long, Douglas, and W. F. Rathjen, MFR 42(7-8):60
Longwell, A. Crosby—see Hughes and Longwell
Loomis, David K.—see Ditton and Loomis
Lopez, Allyn Monty, TM SEFC-85; TM SEFC-106
Lough, R. G.—see Laurence and Lough
Lough, R. Gregory—see Bolz and Lough
_____, Michael Pennington, George R. Bolz, and Andrew A. Rosenberg, FB 80:187
Loughlin, Thomas R.—see Fiscus et al.; Hines and Loughlin
Loughlin, Thomas R., Jack A. Ames, and Judson E. Vandevere, FB 79:347
_____, Lewis Consiglieri, Robert L. DeLong, and Ann T. Actor, MFR 45(7-9):44
Love, Milton S., Gerald E. McGowen, William Westphal, Robert J. Lavenberg, and Linda K. Martin, FB 82:179
_____, and Mike Moser, S 777
_____, Kimberly Shriner, and Pamela Morris, FB 82:530
_____, and William V. Westphal, FB 79:533, 794
_____, William Westphal, and Robson A. Collins, FB 83:243
Love, Travis D., Mary H. Thompson, and Melvin E. Waters, TM SER-3
Low, Doris—see Todd and Low
Low, L.-L.—see Bakkala and Low; Bakkala et al.
Low, Loh-Lee—see Bakkala and Low
_____, and Ikuo Ikeda, S 743
Low, R. A., Jr., and S. B. Mathews, S 753
_____, G. F. Ulrich, and F. Blum, MFR 45(4-6):16
Lowry, Lloyd F.,—see Bukhtiyarov et al.; Frost and Lowry; Oliver et al.
_____, and John J. Burns, MFR 42(9-10):88
Lubbers, Lawrence—see Setzler et al.
Lund, William A., Jr.—see Hennemuth et al.; Walsh and Lund
Lundstrom, Ronald C.—see Ravesi et al.
Lunsford, Pamela J.—see Miller et al.
Lux, F. E.—see Anderson et al.
_____, and F. E. Nichy, S 752
Lux, Fred E., George F. Kelly, and Charles L. Wheeler, S 775:29-33
Lyadov, V. N., TR 25:41-43
Lynde, C. M., FB 79:303
Lynn, Ronald J.—see Laurs et al.

M

MacCall, Alec D.—see Huppert et al.
_____, Herbert W. Frey, Daniel D. Huppert, Eric H. Knaggs, Jane A. McMillan, and Gary D. Stauffer, TM SWFC-4
_____, Keith R. Parker, Ronald Leithiser, and Bill Jessee, FB 81:613
MacDonald, J. Stevenson, Michael J. Dadswell, Ralph G. Appy, Gary D. Melvin, and David A. Methven, FB 82:121
Macewicz, Beverly J.—see Hunter and Macewicz
MacFarlane, R. Bruce—see Whipple et al.
MacIntosh, Richard A., MFR 42(5):15
_____—see Somerton and MacIntosh
MacKay, David B.—see Myrick et al.
MacKenzie, Clyde L., Jr., MFR 45(3):1
Mackett, David J., TM SWFC-37
MacLeod, William D., Jr., Donald W. Brown, Andrew J. Friedman, Douglas G. Burrows, Orlando Maynes, Ronald W. Pearce, Catherine A. Wigren, and Richard G. Bogar, TM F/NWC-92
_____, _____, _____, Orlando Maynes, and Ronald W. Pierce, TM F/NWC-64
Macy, Paul T.—see Dangel et al.
Macy, William K., III, FB 80:449
Mahnken, Conrad V. M.—see Prentice et al.; Dickhoff et al.; Folmar et al.; Gould et al.
Mahon, Robin—see Hunte and Mahon
Mais, K. F.—see Parrish et al.
Majkowski, J., and J. Hampton, FB 81:723

Majkowski, Jacek, and John Hampton, TR 8:87-90
Majors, Richard L., TM F/NWC-80
Malecha, Spencer, TR 16:35-55
Mallicoate, D. L.—see Parrish et al.
Mallman, Reba—see Eisenberg et al.
Maney, Richard S.—see Gadbois and Maney
Mann, Roger, FB 80:315
Mann, Walter C.—see Lee et al.
Manooch, C., III, D. L. Mason, and R. S. Nelson, TM SEFC-124
Manooch, C. S., III, and J. L. Ross, TM SEFC-7
Manooch, Charles S., III—see Huntsman et al.; Trent et al.
_____, Leon E. Abbas, and Jeffrey L. Ross, MFR 43(8):1
_____, and Charles A. Barans, FB 80:1
Manzanilla, E.—see Kleppel and Manzanilla
Manzi, John W.—see Brown et al.
Marak, Robert R.—see Jossi and Marak
Marasco, R. J.—see Laevastu and Marasco
Marasco, Richard—see Laevastu and Marasco
Marcello, Rocco A., Jr.—see Bibb et al.
Marchesseault, Guy D.—see Anderson and Marchesseault
_____, Joseph J. Mueller, and Ivar E. Strand, Jr., TM F/NEC-6
_____, Richard P. Ruais, and Der-Hsiung Wang, TM F/NEC-2
Marchette, Donald—see Dadswell et al.
Margraf, F. J., TM SEFC-33
Marliave, Jeffrey B., FB 78:959
_____—see Matarese and Marliave
Marquette, Willman M., and John R. Bockstoce, MFR 42(9-10):5
Marshall, H. G.—see Colton et al.
Marshall, Harold G., and Myra S. Cohn, TM F/NEC-8; TM F/NEC-9; TM F/NEC-15
Marshall, Joseph A.—see Medved and Marshall
Martin, David K., and Conrad W. Recksiek, MFR 45(10-12):42
Martin, L.—see Gallaway and Martin
Martin, Linda K.—see Cailliet et al.; Love et al.
Martin, Roy E.—see Meinke et al.
_____, Willard H. Doyle, and James R. Brooker, MFR 45(7-9):1
Mason, D. L.—see Manooch et al.
Mason, John M., Jr.—see Baglin et al.
Massey, L. L.—see Jones et al.
Massey, Larry L., and John E. Hollingsworth, TM SEFC-10
Masuda, K.—see Pearcy et al.
Matarese, Ann C., and Jeffrey B. Marliave, FB 80:345
_____, Sally L. Richardson, and Jean R. Dunn, FB 78:923
_____, and David L. Stein, FB 78:169
_____, and Beverly M. Vinter, FB 83:447
Mate, Bruce R.—see Brown and Mate
Mathews, S. B.—see Low and Mathews
Mathews, Stephen B., and Morris W. Barker, FB 81:916
Mathieson, Arthur C., C 442:25-66
Matlock, Gary C.—see McEachron and Matlock
Matshkevski, V. K., TR 25:109-110
Matsubara, Hikaru—see Kanazawa et al.
Matsumoto, Walter M., TM SWFC-44
_____—see Shomura and Matsumoto
_____, Thomas K. Kazama, and Donald C. Aasted, MFR 43(9):1
_____, Robert A. Skillman, and Andrew E. Dizon, C 451
Matsusato, Toshihiko, TR 10:11-16
Matte, A.—see Draxler et al.
Matthews, G. A., TM SEFC-149
_____—see Klima et al.
Matthews, Geoffrey A., MFR 44(9-10):5; TM SEFC-109
_____—see Klima et al.
Matthews, Geoffrey A., Dennis B. Koi, and Richard L. Benefield, TM SEFC-140
Matthiessen, George C., and Michael D. Scherer, S 775:41-46
Maule, Alec G., and Howard F. Horton, FB 82:411; FB 83:701
Maurer, Don, and Roland L. Wigley, S 783
Mayama, Hiroshi, TR 27:83-86
Maynes, Orlando—see MacLeod et al.
Mayo, Charles A.—see Hain et al.
Mayo, J., TM SEFC-46
McBride, Margaret M., and Bradford E. Brown, TM F/NEC-5
McCabe, George T., Jr., Clifford W. Long, and Steve L. Leek, FB 81:412
_____, William D. Muir, Robert L. Emmett, and Joseph T. Durkin, FB 81:815
McCleave, James D.—see Power and McCleave
McCleod, Guy C.—see Robinson et al.
McCulloch, W.—see Neff et al.
McEachron, Lawrence W., and Gary C. Matlock, MFR 45(1):11
McFadin, Louis W.—see Savastano et al.
McFarland, W. N., E. B. Brothers, J. C. Ogden, M. J. Shulman, E. L. Bermingham, and N. M. Kotchian-Prentiss, FB 83:413
McFarland, William N.—see Hobson et al.
McFarlane, Gordon A.—see Beamish and McFarlane
_____, and Richard J. Beamish, MFR 47(2):23
McGahee, T. Glenn—see Dudley and McGahee
McGowan, Michael—see Richards et al.
McGowen, Gerald E.—see Love et al.
McGurk, Michael D., FB 82:113
McHugh, J. L., FB 79:575
_____, Marjorie W. Sumner, Paul J. Flagg, Douglas W. Lipton, and William J. Behrens, S 756
McInnis, R.—see Parrish et al.
McKay, Philip J.—see Ronsivalli et al.
McKenney, Thomas W.—see Griswold and McKenney
McLain, D. R.—see Evans et al.
McLain, Douglas R.—see Bretschneider and McLain
McLellan, G. L., and J. K. Leong, FB 78:965
McLellan, Garey L., and Jorge K. Leong, TM SEFC-93
McMillan, Jane A.—see Huppert et al.; MacCall et al.
McPhail, M. J.—see Walters and McPhail
McVey, J. P., and T. Wibbels, TM SEFC-145
Meaburn, G. Malcolm, Karen B. Bolton, Harry L. Seagran, Thomas Siewicki, Stephen M. Bingham, and Peter J. Eldridge, TM SEFC-74
Mead, James G.—see Hansen et al.; Testaverde and Mead
_____, Daniel K. Odell, Randall S. Wells, and Michael D. Scott, FB 78:353
Meadows, Robert E.—see Brundage and Meadows
Medved, Robert J., and Joseph A. Marshall, FB 79:441
_____, Charles E. Stillwell, and John J. Casey, FB 83:395
Medway, W., MFR 42(9-10):91
Meinke, Wilmon W., Gunnar Finne, Ranzell Nickelson, and Roy Martin, MFR 45(7-9):34
Melvin, E. F.—see Bronstein et al.
Melvin, Garu D.—see MacDonald et al.
Mendelsohn, J. M., and John G. Callan, MFR 42(1):38
Mendelsohn, Joseph M.—see Gorga et al.
Mendelssohn, Roy, FB 78:35, 887
Mendoza, Jeremy J.—see Antoine et al.
Menz, Fredric C., and Donald P. Wilton, FB 81:168
Mercer, Roger W.—see Fiscus and Mercer
_____, and Michele Bucy, MFR 45(7-9):56

Merriner, John V.—see Ross and Merriner
Metcalfe, J. L.—see Peterson et al.
Methot, Richard D., Jr., FB 81:741
_____—see Botsford et al.
Methven, David A.—see MacDonald et al.
Meyer, Philip A., TM F/NWR-3
Meyer, Thomas L., Richard A. Cooper, and Kenneth J. Pecci, MFR 43(9):14
Meyers, Theodore R., MFR 46(3):14
_____, and Jerry D. Hendricks, MFR 44(12):1
Meylan, Anne—see Carr et al.
Michaels, William L.—see Bowman and Michaels
Michel, Harding B., TR 15
Middleditch, B., TM SEFC-51
_____, and D. West, TM SEFC-41
Migaki, George—see Albert et al.
Mighell, James L., MFR 43(2):1
Mihursky, Joseph A.—see Setzler et al.
Miklas, Joseph J.—see Hines et al.
Miller, Bruce S.—see Quinn et al.
Miller, Charles B.—see Rothlisberg and Miller
Miller, David R., FB 80:650
Miller, Don C.—see Pearce et al.
Miller, Katie—see Sullivan et al.
Miller, Morton M.—see Norton et al.
Miller, Robert E., Douglas W. Campbell, and Pamela J. Lunsford, FB 78:196
Miller, Robert V., TR 12:1-4
Miller, Ruth, and John Spinelli, FB 80:281
Millikin, Mark R., FB 80:655
_____, and Austin B. Williams, TR 1
Milner, George B., David J. Teel, Fred M. Utter, and Gary A. Winans, MFR 47(1):1
Minello, Thomas J.—see Zimmerman et al.
Mintel, Ralph J., and Gary B. Smith, TM F/NWC-18
Mitchell, Edward D.—see Breiwick et al.
Mitsuoka, Rae R., Roger E. Pearson, Laura J. Rutledge, and Samuel Waterman, TM F/NWC-34
Miyamoto, Garret T.—see Ralston and Miyamoto
Mizroch, Sally A.—see Wespestad et al.
_____, Dale W. Rice, and Jeffrey M. Breiwick, MFR 46(4):15, 20, 25
Modde, Timothy, and Stephen T. Ross, FB 78:911
Moffitt, Robert B., FB 81:434
_____—see Polovina et al.
Moles, Adam, S 760
Moles, D. Adam—see Rice et al.
Monan, Gerald E., TR 27:33-37
_____—see Liscom et al.
Mordvinova, T. N.—see Naidenova and Mordvinova
Morgan, G. R., B. F. Phillips, and L. M. Joll, FB 80:475
Morgan, Steven G., FB 78:693
Morrell, Stephen H.—see Ainley et al.
Morris, Byron F., TM F/AKR-2; TM F/AKR-3; TM F/AKR-4
_____, Miles S. Alton, and Howard W. Braham, TM F/AKR-5
Morris, Jeffrey D.—see Keser et al.
Morris, Pamela A., FB 82:199
_____—see Love et al.
Morrow, Robert J., and Elizabeth K. Buelna, TM SWFC-55
Morse, M. Patricia—see Robinson et al.
Morse, Wallace W., FB 78:103, 190
_____—see Berrien et al.
Mortimer, Jeanne—see Carr et al.
Moser, H. Geoffrey, and Elbert H. Ahlstrom, TR 36:37-41
Moser, Mike—see Love and Moser
_____, Judy A. Sakanari, Carol A. Reilly, and Jeannette Whipple, TR 29
Mountford, Nancy K.—see Setzler et al.
Moyle, Peter B.—see Daniels and Moyle
Mueller, Joseph J.—see Marchesseault et al.
Mugiya, Yasuo—see Tanaka et al.
Muir, William D.—see McCabe et al.
Mullin, M. M., E. R. Brooks, F. M. H. Reid, J. Napp, and E. R. Stewart, FB 83:151
Mundy, Bruce C.—see Boehlert et al.
Murai, Sueto, Harold A. Gangmark, and Robert R. French, TM F/NWC-14
Murai, Takeshi, Toshio Akiyama, and Takeshi Nose, TR 27:87-90
Murawski, Steven A.—see Conover and Murawski; Ropes et al.
_____, John W. Ropes, and Fredric M. Serchuk, FB 80:21
Murphy, Leo C., Jr.—see Rothschild et al.
Musick, J. A.—see Colvocoresses and Musick
Myers, Katherine W.—see Bond et al.
Myrick, Albert C., Jr.—see Reilly et al.
_____, Aleta A. Hohn, Priscilla A. Sloan, Makota Kimura, and Drew D. Stanley, TM SWFC-30
_____, Edward W. Shallenberger, Ingrid Kang, and David B. MacKay, FB 82:207

N

Naidenova, N. N., and T. N. Mordvinova, TR 25:123-127
_____, C. M. Nigmatullin, and A. V. Gaevskaya, TR 25:113-116
Nakamura, E. L., J. R. Taylor, and I. K. Workman, TM SEFC-45
Nakamura, R. M.—see Cramer et al.
Naplin, N. A.—see Kendall and Naplin
Naplin, Nancy Anne—see Richardson et al.
Napp, J.—see Mullin et al.
Naughton, S.—see Saloman and Naughton
Naughton, S. P., and C. H. Saloman, TM SEFC-150; TM SEFC-160
Naughton, Steven P.—see Saloman and Naughton; Trent et al.
Neal, R. A., H. Brusher, and L. F. Sullivan, TM SEFC-114
Neal, Victor T.—see Quinn and Neal
Neally, Nate—see Freeman et al.
Neff, J. M., M. P. Coglianese, W. McCulloch, L. A. Reitsema, and S. Anderson, TM SEFC-69
Neill, William H.—see Gooding et al.
Neilson, John D., and Glen H. Geen, FB 83:91
_____, _____, and Brian Chan, FB 83:81
Nellis, David W.—see Olsen et al.
Nelson, Craig S., and David M. Husby, S 763
Nelson, Donald R.—see Klimley and Nelson
Nelson, Martin O.—see Dark et al.
_____, and Thomas A. Dark, MFR 47(2):82
Nelson, R.—see Wespestad et al.
Nelson, R. E., Jr., MFR 47(2):39
Nelson, R. S.—see Manooch et al.
Nelson, Richard W.—see Barnett et al.; Conrad et al.; Stone et al.
_____, Harold J. Barnett, and George Kudo, MFR 47(2):60
Nelson, Russell, Jr.—see Edwards et al.; French et al.; Wall et al.
_____, Robert French, and Janet Wall, MFR 43(5):1
Nelson, Walter R.—see Epperly and Nelson
Neves, Richard J., FB 79:473

Newcomb, Timothy W., and Thomas J. Flagg, MFR 45(2):8
Newlin, K.—see Jones et al.
Ng, L., TM SEFC-146; TM SEFC-151
Ngiramengior, Marcus—see Heslinga et al.
Nicholl, Ragan—see Hunter and Nicholl
Nichols, Scott, MFR 44(9-10):31; TM SEFC-110; TM SEFC-141; TM SEFC-142
Nicholson, William R.—see Huntsman et al.
Nichy, F. E.—see Lux and Nichy
Nickelson, Ranzell—see Meinke et al; Ward et al.
Nielsen, Daphne—see Squire and Nielsen
Niesen, Thomas M.—see Rosenblum and Niesen
Niggol, Karl, TM F/NWC-29
Nigmatullin, C. M.—see Naidenova et al.
Nikolaeva, V. M., TR 25:67-72
Nip, Wai-Kit—see Frank et al.
Nishimoto, Robert—see Laurs et al.
Nishiyama, T.—see Pearcy et al.
Nogami, Kazuhiko, Osamu Fukuhara, and Satoshi Umezawa, TR 16:73-81
Noma, Toshifumi, TR 16:17-23
Northeast Monitoring Program, TM F/NEC-10; TM F/NEC-20
Norton, Virgil J., Morton M. Miller, and Elizabeth Kenney, TM F/NEC-40
Norwood, C.—see Lake et al.
Nose, Takeshi—see Murai et al.
Nulk, Vernon E.—see Smolowitz and Nulk
Nunnallee, Edmund P.—see Dark et al.
Nybakken, James W.—see Oliver et al.

O

O'Connell, Charles P., FB 78:475
_____, and Pedro A. Paloma, FB 79:806
O'Connor, Edmund F.—see Oliver et al.
O'Connor, J. M.—see Bath and O'Connor
Odell, Daniel K.—see Antonelis et al.; Mead et al.
_____, Edward D. Asper, Joe Baucom, and Lanny H. Cornell, FB 78:171
Ogasawara, Junroku—see Joyce et al.
Ogden, T. C.—see McFarland et al.
Ogren, Larry—see Steimle and Ogren
Okamoto, Ryo, TR 10:17-20
Oliver, John S., Peter N. Slattery, Edmund F. O'Connor, and Lloyd F. Lowry, FB 81:501
_____, _____, Larry W. Hulberg, and James W. Nybakken, FB 78:437
_____, _____, Mark A. Silberstein, and Edmund F. O'Connor, FB 81:513
Olla, Bori L.—see Pearson et al.
Olsen, David A., and Joseph A. LaPlace, MFR 43(11):11
_____, David W. Nellis, and Richard S. Wood, MFR 46(1):13
Olsen, K.—see Sizemore and Olsen
Omori, Makoto—see Knight and Omori
O'Neil, Steven P.—see Smith et al.
Orak, Obichang—see Heslinga et al.
O'Reilly, J. E.—see Colton et al.; Draxler et al.
O'Reilly, John E.—see Reid et al.
Orsi, Joseph A.—see Jaenicke et al.
_____, and Joyce H. Landingham, TM F/NWC-86
Osgood, Kenric E.—see Hines et al.
Otwell, W. Steven, and George G. Giddings, MFR 42(7-8):67
Overholtz, William J., and Albert V. Tyler, FB 83:507
Overstreet, Robin M., TR 25:117-122
Ow, Mark D.—see Polovina and Ow
Owens, D. W., K. A. Jones, and D. J. Gallaway, TM SEFC-69
Oxenford, Hazel A., and Wayne Hunte, FB 81:906

P

Page, Gary W.—see Allen et al.
Palko, B. J.—see Williams et al.
_____, G. L. Beardsley, and W. J. Richards, C 441
Palko, Barbara J., TM SEFC-132
_____—see Brusher and Palko; Brusher et al.; Williams et al.
_____, Grant L. Beardsley, and William J. Richards, C 443
_____, Deb Hess, and John Stevely, TM SEFC-59
Palmer, Joan E.—see Lange and Palmer
Palmisano, Aldo N.—see Gould et al.
Paloma, Pedro A.—see O'Connell and Paloma
Pardy, Christopher—see Tettey et al.
Park, Donn L.—see Harmon and Park
Parker, Jeffrey H.—see Woodhead et al.
Parker, Keith R., FB 78:541; TR 36:5-6
_____—see Bartoo and Parker; MacCall et al.
Parker, R. H., A. L. Crowe, and L. S. Bohme, TM SEFC-25
Parks, N. B., and F. R. Shaw, TM F/NWC-51
_____, and S. E. Hughes, TM F/NWC-8
Parks, Norman B., TM F/NWC-26; TM F/NWC-61
Parrish, R. H., D. L. Mallicoate, and K. F. Mais, FB 83:483
Parrish, Richard H., N. Bartoo, P. Donely, S. Herrick, P. Kleiber, R. M. Laurs, R. McInnis, and J. Wetherall, TM SWFC-52
Parsons, Glenn R., FB 81:61; FB 83:695
Pascagoula Laboratory, TM SEFC-71
Patashnik, Max, Herman S. Groninger, Harold Barnett, George Kudo, and Barbara Koury, MFR 44(5):1
Patella, F. J.—see Klima et al.
Patella, Frank J., Jr.—see Klima et al.; Klima and Patella
Patten, Benjamin G.—see Tretsven and Patten
Pawlowski, Robert J.—see Higgins et al.
Payne, P. Michael, and David C. Schneider, FB 82:440
Payne, Roger S.—see Wursig et al.
Pearce, John B.—see Higgins et al.
_____, Carl R. Berman, Jr., and Marlene R. Rosen, TM F/NEC-35
_____, Don C. Miller, and Carl Berman, TM F/NEC-26
Pearce, Ronald W.—see MacLeod et al.
Pearcy, W., T. Nishiyama, T. Fujii, and K. Masuda, FB 82:391
Pearcy, William G., FB 78:529
_____—see Brodeur and Pearcy; Gabriel and Pearcy; Peterson et al.
Pearson, Roger E.—see Fulton and Pearson; Mitsuoka et al.; Wahle and Pearson; Wahle et al.
Pearson, Walter H., Peter C. Sugarman, Dana L. Woodruff, J. W. Blaylock, and Bori L. Olla, FB 78:821
_____, _____, _____, and Bori L. Olla, FB 79:641
Pecci, Kenneth J.—see Hulbert et al.; see Meyer et al.
Pederson, Mark, MFR 47(2):35
Pella, Jerome J.—see Bailey et al.
Pellegrin, Gilmore J., Jr.—see Watts and Pellegrin
Pennington, Michael—see Berrien et al.; Lough et al.
Perez, L. A.—see Lightner et al.
Pérez Farfante, Isabel, FB 83:1
Perkins, Herbert C.—see Shumway et al.

Perrin, W. F., M. D. Scott, G. J. Walker, F. M. Ralston, and D. W. K. Au, TM SWFC-38
Perrin, William F.—see Hansen et al.; Leatherwood et al.
_____, Michael D. Scott, G. Jay Walker, and Virginia L. Cass, TR 28
Perry, G.—see Butcher et al.
Perryman, W.—see Au and Perryman
Perryman, Wayne L.—see Au and Perryman
Peteherych, S.—see Brucks et al.
Peters, D. S.—see Colby et al.
Peterson, C. H., P. B. Duncan, H. C. Summerson, and G. W. Safrit, Jr., FB 81:765
Peterson, Charles H., P. Bruce Duncan, Henry C. Summerson, and Brian F. Beal, FB 83:671
_____, Henry C. Summerson, and Stephen R. Fegley, FB 81:429
Peterson, R. H., P. H. Johansen, and J. L. Metcalfe, FB 78:147
Peterson, William T., Richard D. Brodeur, and William G. Pearcy, FB 80:841
Pettit, Stephen W.—see Basham et al.; Delarm et al.; Koski et al.
_____, and Charles Koski, TM F/NWR-14
Phares, Patricia, TM SEFC-56; TM SEFC-57; TM SEFC-58
Philbin, Cavin W., MFR 42(2):30
Phillips, B. F.—see Morgan et al.
Philo, L. Michael—see Albert et al.
Phonlor, G.—see Hoss and Phonlor
Picquelle, Susan, TR 36:55-57
_____—see Stauffer and Picquelle
_____, and Gary Stauffer, TR 36:7-15
Pierce, Fran—see Stevenson and Pierce
Pierce, Ronald W.—see Macleod et al.
Pietsch, Theodore W., FB 79:387
_____, and Jeffrey A. Seigel, FB 78:379
_____, and John P. Van Duzer, FB 78:59
Pike, Jeffrey R.—see Braddon et al.
Pitcher, Kenneth W., FB 78:549, 797; FB 79:467
Poffenberger, J. R., TM SEFC-148; TM SEFC-159
Poffenberger, John R., MFR 44(9-10):38; TM SEFC-99; TM SEFC-100; TM SEFC-101; TM SEFC-111
_____—see Jones et al.; Ward and Poffenberger
Polacheck, Tom, TM SWFC-17; TM SWFC-19; TM SWFC-26; TM SWFC-51
Polianski, Yu. I.—see Bauer and Polianski
Polovina, Jeffrey J.—see Ralston and Polovina
_____, Robert B. Moffitt, Stephen Ralston, Paul M. Shiota, and Happy A. Williams, MFR 47(4):19
_____, and Mark D. Ow, FB 83:457
Poole, John C.—see Fogarty et al.
Popov, Valentin N.—see Delyamure et al.
Posgay, J. A., MFR 43(4):19
Potievski, E. G., L. A. Tsareva, and V. V. Burlin, TR 25:99
Potthoff, T.—see Kelly et al.
Potthoff, Thomas, FB 78:277
_____—see Richards et al.
_____, and Sharon Kelley, FB 80:161
Powell, Allyn B., and Herbert R. Gordy, FB 78:701
Power, James H., and James D. McCleave, FB 81:483
Powers, J. E., TM SEFC-154
Powers, James—see Richards et al.
Powers, Joseph E., TM SEFC-127; TR 8:19-24
_____—see Browder and Powers; Holt and Powers; Lo et al.
Powers, K. D., TM F/NEC-27
Powles, H., and C. A. Barans, MFR 42(5):21
Powles, Howard, FB 78:119
Pozdnyakov, S. E., TR 25:39
Pratt, Harold L., Jr.—see Casey et al.
_____, and John G. Casey, TR 8:175-177
_____, _____, and Robert B. Conklin, FB 80:153
Pratt, Sheldon D., S 751:16-20
Prentice, Earl F.—see Gould et al.; Rensel and Prentice
_____, Kurt X. Gores, Conrad V. M. Mahnken, and Herman S. Groninger, TM F/NWC-68
Prescott, John H.—see Kraus et al.
Prezioso, Jerome—see Griswold and Prezioso
_____, and Carolyn A. Griswold, S 751:20-21
Price, R. J.—see Bronstein et al.
Prince, Eric D.—see Lee et al.; Brothers et al.
_____, and Dennis W. Lee, TM SEFC-55; TM SEFC-103
_____, and Lynn M. Pulos, TR 8
Pristas, P. J., TM SEFC-77
Pristas, Paul J., TM SEFC-23; TM SEFC-90
Prytherch, Herbert F., TM SEFC-16; TM SEFC-122
Puffer, Harold W.—see Winkler et al.
Pulos, Lynn M.—see Costello and Pulos; Prince and Pulos

Q

Queenth, Martina K. K.—see Kaya et al.
Quinn, J. G.—see Hoffman and Quinn
Quinn, Thomas P., Bruce S. Miller, and R. Craig Wingert, FB 78:816
Quinn, William H., and Victor T. Neal, FB 81:363
Qurirolo, Louis E., TM F/AKR-1

R

Rabalais, Nancy N.—see Flint and Rabalais
Radtke, R. L., and J. M. Dean, FB 80:201
Radtke, Richard L., FB 82:434; TR 8:99-103; TR 8:123-129
_____, and J. M. Dean, FB 79:360
_____, and Peter C. F. Hurley, TR 8:145-150
Rainey, William E., TM SEFC-82
Raju, Solomon N., TR 22
Ralph, David E.—see Fogarty et al.
Ralston, F. M.—see Perrin et al.
Ralston, Stephen—see Polovina et al.
_____, and Garret T. Miyamoto, FB 81:523
_____, and Jeffrey J. Polovina, FB 80:435
Ramsdell, Gordon E.—see Slabyj et al.
Ramsey, Leah—see Shimek et al.
Randall, John E., FB 78:201
Rasekh, Jamshyd G., Melvin E. Waters, and V. D. Sidwell, MFR 42(11):26
Rathjen, W. F.—see Long and Rathjen
Ravesi, E. M.—see Licciardello et al.
Ravesi, Elinor M.—see Licciardello et al.
_____, Joseph J. Licciardello, Bette E. Tuhkunen, and Ronald C. Lundstrom, MFR 47(1):48
Ray, G. Carleton—see Fay et al.
Ray, Sammy M.—see Sheridan and Ray
Raymore, Paul A., Jr.—see Smith et al.; Walters et al.
Read, A. J.—see Smith et al.
Read, Andrew J., and David E. Gaskin, FB 83:543
Reames, Robert C., and Austin B. Williams, FB 81:885
Recksiek, Conrad W., MFR 45(10-12):26

Recksiek, Conrad W.—see Martin and Recksiek
Redman, R. M.—see Lightner et al.
Reduker, David W.—see Upton et al.
Reed, R. K., MFR 42(6):29; MFR 46(1):7
Reese, Gladys B., TM SEFC-125
Reeves, Randall R., MFR 42(9-10):65
_____—see Leatherwood et al.
Regenstein, J. M., H. O. Hultin, M. Fey, and S. D. Kelleher, MFR 42(1):32
Rehfus, Ruth—see Higgins et al.
Reid, F. M. H.—see Mullin et al.
Reid, Robert N., John E. O'Reilly, and Vincent S. Zdanowicz, TM F/NEC-16
Reilly, Carol A.—see Moser et al.
Reilly, Stephen B., Aleta A. Hohn, and Albert C. Myrick, Jr., TM SWFC-35
_____, Dale W. Rice, and Allen A. Wolman, FB 81:267
Reitsema, L. A., TM SEFC-26
_____—see Gallaway and Reitsema; Neff et al.
Renaud, Maurice L., TR 21
Renfroe, William C., and Harold A. Brusher, TM SEFC-94
Rensel, John E., and Earl F. Prentice, FB 78:781
Resource Assessment Division, Northeast Fisheries Center, TM F/NEC-12; TM F/NEC22
Ribic, Christine A.—see Allen et al.
Rice, D. W., Jr., F. L. Harrison, and A. Jearld, Jr., FB 78:675
Rice, Dale W.—see Braham and Rice; Gosho et al.; Mizroch et al.; Reilly et al.
_____, Allen A. Wolman, and Howard W. Braham, MFR 46(4):7
Rice, Stanley D.—see Bailey et al.
_____, and Jack E. Bailey, FB 78:641, 809
_____, D. Adam Moles, John F. Karinen, Sid Korn, Mark G. Carls, Christine C. Brodersen, Jessica A. Gharrett, and Malin M. Babcock, TM F/NWC-67
Rice, T. R., TM AEFC-1
Richards, Gary P.—see Babinchak et al.
_____, Daniel Goldmintz, and John A. Wells, TM SEFC-123
Richards, Jack, TM F/NWR-10
Richards, John B.—see Bybee and Richards
Richards, R. Anne, J. Stanley Cobb, and Michael J. Fogarty, FB 81:51
Richards, W. J.—see Kelly et al.; Palko et al.
Richards, William J., S 776; TM SEFC-34
_____—see Palko et al.; Sherman et al.
_____, Thomas Potthoff, Sharon Kelley, Michael McGowan, Leonard Ejsymont, and James Powers, TM SEFC-144
Richardson, Sally L., FB 78:855; FB 79:103, 163
_____—see Laroche and Richardson; Laroche et al.; Matarese et al.
_____, Jean R. Dunn, and Nancy Anne Naplin, FB 78:401
_____, and Betsy B. Washington, C 430
Richardson, W. John—see Wursig et al.
Richkus, William A.—see Ulanowicz et al.
Richter, Daryl E.—see Greenstein et al.
Riedman, Marianne—see Le Boeuf et al.
Roberts, Dale—see DeMartini et al.
Roberts, Glenn C.—see Barnett et al.; Stone et al.
Roberts, T. W.—see Klima et al.
Robinson, Gary R., FB 80:907
Robinson, William E., William E. Wehling, M. Patricia Morse, and Guy C. McLeod, FB 79:449
Robison, Bruce H.—see Carey and Robison
_____, and James E. Craddock, FB 81:283
Rockett, Mark D., Gary W. Standard, and Mark E. Chittenden, Jr., FB 82:418
Rodjuk, G. N., TR 25:31-32
_____—see Gaevskaya et al.
Roe, Richard B.—see Klima and Roe
Roe, Susan M.—see Higgins et al.
Rogers, Donald E.—see Ruggerone and Rogers
_____, and Ernest O. Salo, TR 27:39-43
Roithmayr, Charles M.—see Lewis and Roithmayr
Ronholt, Lael L.—see Wilderbuer et al.
_____, Franklin R. Shaw, and Thomas K. Wilderbuer, TM F/NWC-23
Ronsivalli, Louis J., MFR 44(1):8
_____—see Gorga and Ronsivalli
_____, and Daniel W. Baker II, MFR 43(4):1
_____, John D. Kaylor, Philip J. McKay, and Carmine Gorga, MFR 43(2):22
Ropes, John W., MFR 44(8):1; MFR 46(2):27
_____—see Murawski et al.
_____, Douglas S. Jones, Steven A. Murawski, Fredric M. Serchuk, and Ambrose Jearld, Jr., FB 82:1
_____, Steven A. Murawski, and Fredric Serchuk, FB 82:253
Roppel, Alton Y., TR 4
Rosapepe, John V.—see Joyce et al.
Rose, Craig S.—see Feldman and Rose
Rosen, Marlene R.—see Pearce et al.
Rosenberg, Andrew A., FB 80:245
_____—see Laroche et al.; Lough et al.
_____, and Joanne Lyczkowski Laroche, FB 80:150
Rosenblum, Shelly E., and Thomas M. Niesen, FB 83:403
Rosenfeld, Mitchel E.—see Frank et al.
Rosenthal, H., MFR 42(5):1
Ross, J. L.—see Manooch and Ross
Ross, Jeffrey L.—see Manooch et al.
_____, and John V. Merriner, FB 81:553
Ross, Stephen T.—see Modde and Ross
Ross, Steve W., FB 82:227
Rothlisberg, Peter C., FB 80:541
_____, and Charles B. Miller, FB 81:455
Rothschild, B., and J. A. Gulland, TM SEFC-98
Rothschild, Brian J.—see Hennemuth et al.
_____, Richard C. Hennemuth, Jacob J. Dykstra, Leo C. Murphy, Jr., John C. Bryson, and James D. Ackert, TM F/NEC-7
Roumillat, William A.—see Waltz et al.
Ruais, Richard P.—see Marchesseault et al.
Ruggerone, Gregory T., and Donald E. Rogers, FB 82:401
Rugh, D. J.—see Krogman and Rugh
Rugh, David J.—see Fiscus et al.
_____, and James C. Cubbage, MFR 42(9-10):46
Russell, Howard J.—see Fogarty et al.
Russo, Joseph L., C 435
_____—see Collette and Russo; Cressey et al.
Rutledge, Laura J.—see Mitsuoka et al.
Ryan, John J.—see Callan and Ryan; Lane et al.

Safrit, G. W., Jr.—see Peterson et al.
Saito, Yunosuke, C 442:1-5; C 442:13-17
Sakamoto, Mineshi—see Kanazawa et al.
Sakanari, Judy A.—see Moser et al.
Salo, Ernest O.—see Rogers and Salo
Saloman, C., and S. Naughton, TM SEFC-126; TM SEFC-128
Saloman, C. H.—see Naughton and Saloman
Saloman, Carl H.—see Johnson and Saloman; Trent et al.
_____, and William Fable, Jr., TM SEFC-61
_____, and Steven P. Naughton, TM SEFC-133; TM SEFC-134
Samollow, Paul B.—see Shaklee and Samollow
Sample, T. M.—see Bakkala et al.
Sample, Terrance M.—see Gunderson and Sample
_____, Kiyoshi Wakabayashi, Richard G. Bakkala, and Hirotsune Yamaguchi, TM F/NWC-88
_____, and Robert J. Wolotira, Jr., TM F/NWC-89
Samples, Karl C., MFR 45(7-9):50
Sampson, David B.—see Creaser et al.
Sandifer, P. A.—see Wenner et al.
Sandifer, Paul A.—see Wenner et al.
Sasaki, Minoru—see Koganezawa and Sasaki
Sato, Shigekatsu—see Shaw and Sato
Saunders, Richard L.—see Wedemeyer et al.
Savastano, K., and H. Holley, TM SEFC-35
Savastano, Kenneth J., Kenneth H. Faller, Louis W. McFadin, and Hillman Holley, TM SEFC-73
Scarlett, Paul G., S 755
_____—see Fogarty et al.; Smith et al.
Scheer, Anthony G.—see Sullivan et al.
Scheffer, Victor B., Clifford H. Fiscus, and Ethel I. Todd, S 780
Scherer, Michael D.—see Matthiessen and Scherer
Schevill, William E.—see Watkins and Schevill
Schick, Daniel F.—see Shumway et al.
Schlexer, Fredrick V., TM SWFC-41
Schlotterbeck, Robert E., and David W. Connally, FB 80:895
Schmitt, P. D., FB 82:237
Schneider, David C.—see Payne and Schneider
Schreck, C. B.—see Hjort et al.
Schroeter, Stephen C.—see Kato and Schroeter
Schropp, S. J.—see Schwartz et al.
Schubel, J. R.—see Itzkowitz and Schubel
Schulman, S. S.—see Kovaliova and Schulman
Schwab, C.—see Brooks et al.
Schwartz, Frank J., S 750; TR 8:167-174
Schwartz, J. R., S. K. Alexander, S. J. Schropp, and V. L. Carpenter, TM SEFC-27
Scott, G. P., TM SEFC-168
Scott, M. D.—see Irvine et al.; Perrin et al.
Scott, Michael D.—see Irvine et al.; Mead et al.; Perrin et al.
Scotto, Liberta E.—see Gore and Scotto
Seaborn, Gloria T.—see Hale et al.; Joseph and Seaborn
Seagran, Harry L.—see Meaburn et al.
Sears, James R.—see Hulbert et al.
Sebenius, James K., MFR 43(10):1
Seckel, G. R.—see Husby and Seckel
Sedberry, George R., FB 83:461; S 773
Seigel, Jeffrey A.—see Pietsch and Seigel
Sen, A. R., TM SWFC-45
Serafy, D. Keith, and F. Julian Fell, TR 33
Serchuk, Fredric M.—see Murawski et al.; Ropes et al.
Serra, Anthony F.—see Watson et al.
Sertic, Peter D.—see Barnett et al.
Serventy, D. L.—see Blackburn and Serventy
Setzler, Eileen M., Walter R. Boynton, Kathryn V. Wood, Henry H. Zion, Lawrence Lubbers, Nancy K. Mountford, Phyllis Frere, Luther Tucker, and Joseph A. Mihursky, C 433
Shaklee, James B., Richard W. Brill, and Robin Acerra, FB 81:85
_____, and Paul B. Samollow, FB 82:693, 703
Shallenberger, Edward W.—see Myrick et al.
Shane, Susan H., FB 78:593
Shang, Yung C., MFR 43(9):23
Shaw, F. R.—see Parks and Shaw
Shaw, Franklin R., TM F/NWC-69
_____—see Ronholt et al.
Shaw, William N., C 442:19-24; C 447
_____, and Shigekatsu Sato, C 447:1
Shchepkina, A. M., TR 25:49-51
Shealy, M. H., Jr.—see Wenner et al.
Shealy, Malcolm H., Jr.—see Wenner et al.
Sheehy, Daniel J., MFR 44(6-7):4
_____, and Susan F. Vik, MFR 42(7-8):85
Sheldon, John—see Silverthorne et al.
Shenker, Jonathan M., FB 81:161
Shepherd, Gary R., and Churchill B. Grimes, FB 81:803; FB 82:501
Sherburne, Stuart W., FB 82:541
Sheridan, Peter F.—see Divita et al.
_____, and Sammy M. Ray, TM SEFC-63
_____, and David L. Trimm, FB 81:643
Sherman, K., J. R. Green, J. R. Goulet, and L. Ejsymont, FB 81:855
Sherman, Kenneth, Reuben Lasker, William Richards, and Arthur W. Kendall, Jr., MFR 45(10-12):1
Shigueno, Kunihiko—see Kurata et al.
Shimada, A. M.—see Bakkala et al.
Shimada, Allen M.—see Bakkala et al.
Shimek, Ronald L., David Fyfe, Leah Ramsey, Anne Bergey, Joel Elliot, and Stewart Guy, FB 82:445
Shiota, Paul M.—see Polovina et al.
Shipman, John W.—see Grabe et al.
Shipp, Robert L.—see Branstetter and Shipp
Shirahata, Soichiro, TR 27:91-95
Shleser, Robert A., and L. Frank Follett, TR 16:57-60
Shlossman, Philip A., and Mark E. Chittenden, Jr., FB 79:649
Shomura, Richard S., TM SWFC-5
_____, and Walter M. Matsumoto, TM SWFC-22
_____, and Howard O. Yoshida, TM SWFC-54
Show, I.—see Fucik and Show
Shriner, Kimberly—see Love et al.
Shulenberger, Eric—see Cheng and Shulenberger
Shulman, M. J.—see McFarland et al.
Shults, Larry M.—see Delyamure et al.; Fay et al.
Shumway, Sandra E., Herbert C. Perkins, Daniel F. Schick, and Alden P. Stickney, TR 30
Sibunka, John D., and Myron J. Silverman, TM F/NEC-33
Sides, Wendell—see Lawton et al.
Sidwell, V. D.—see Rasekh et al.
Sidwell, Virginia D., TM SEFC-11
Siewicki, Thomas, Frances M. Van Dolah, and Jane S. Sydlowski, TM SEFC-143
Siewicki, Thomas—see Meaburn et al.
Silberstein, Mark A.—see Oliver et al.

Silverman, Myron J.—see Sibunka and Silverman
Silverthorne, Wesley—see Korson and Silverthorne
_____, Brian Brown, and John Sheldon, TM F/SWR-002
Sims, Carl W.—see Durkin and Sims
Sindermann, Carl J., C 442; TR 10; TR 16; TR 25:7-13; TR 27
Singer, Michael M., FB 83:531
Singh, R. Paul—see Brown et al.
_____, and Daniel E. Brown, MFR 42(7-8):77
Singleton, Kathleen—see Sullivan et al.
Sissenwine, M. P.—see Lange and Sissenwine
Sissenwine, Michael P., and James E. Kirkley, TM F/NEC-4
Sizemore, R., and K. Olsen, TM SEFC-38; TM SEFC-49
Skillman, Robert A.—see Matsumoto et al.
Skinner, Renate H., FB 80:269
Skriabin, A. S.—see Delamure and Skriabin
Slabyj, Bohdan M., Gordon E. Ramsdell, and Ruth H. True, MFR 43(6):17
Slater, Beany M.—see Hamm and Slater
Slatick, Emil, and Larry R. Basham, MFR 46(3):68; MFR 47(1):83
Slattery, Peter N.—see Oliver et al.
Sloan, Priscilla A.—see Myrick et al.
Smayda, Thomas J.—see Durbin et al.
Smedes, G., J. Calman, and J. Beebe, TM SEFC-44
Smith, C. Lavett, TR 8:45-47
Smith, Cecelia S.—see Howard and Smith
Smith, D. E.—see Banas et al.
Smith, Daniel E., and Jack W. Jossi, TR 5
Smith, G. B.—see Hirschberger and Smith
Smith, G. J. D., A. J. Read, and D. E. Gaskin, FB 81:660
Smith, Gary B.—see Fiedler et al.; Mintel and Smith; Walters et al.
_____, and Richard G. Bakkala, S 754
_____, Gary E. Walters, Paul A. Raymore, Jr., and Wendy A. Hirschberger, TM F/NWC-59
Smith, Paul E., William Flerx, and Roger P. Hewitt, TR 36:27-32
_____, and Roger P. Hewitt, TR 36:17-26
Smith, R. Z., and E. Wold, TM F/NWR-1; TM F/NWR-4; TM F/NWR-6
Smith, Robert Z., and Roy J. Wahle, TM F/NWC-6
Smith, Ronald W.—see Fogarty et al.
_____, Louise M. Dery, Paul G. Scarlett, and Ambrose Jearld, Jr., TM F/NEC-11
Smith, Stanley D.—see Gould et al.
Smith, Stephen M., James G. Hoff, Steven P. O'Neil, and Michael P. Weinstein, FB 82:455
Smith, Tim D., FB 81:1; TM SWFC-20
_____—see Wahlen and Smith
_____, and Nancy C. H. Lo., TM SWFC-34
Smithhisler, John R.—see Carroll and Smithhisler
Smolowitz, Ronald Joel, S 771
_____, and Vernon E. Nulk, MFR 44(4):1
Smyth, Peter O., FB 78:251
Snell, J. Ernest—see Zuboy and Snell
Sokolov, Anatoli S.—see Hansen et al.
Solonchenko, A. I., TR 25:83-84
Somerton, David A., FB 79:259
_____—see Balsiger et al.
_____, and Richard A. MacIntosh, FB 81:621
Sonu, Sunee C., TM F/SWR-003
Sparks, Albert K., TR 16:61-67
Speckhard, Marci W.—see Taylor and Speckhard
Spinelli, John—see Lee et al.; Miller and Spinelli
Spotte, Stephen, and Gary Adams, FB 79:182
Spraitz, Robert M.—see Fuss et al.
Squiers, Thomas S.—see Dadswell et al.
Squire, James L., Jr., MFR 45(4-6):27; MFR 45(7-9):63; MFR 47(3):43; S 759; S 762; TM SWFC-11
_____, and Daphne V. Nielsen, S 772
Squires, Dale—see Conrad et al.
St. Aubin, D. J.—see Geraci and St. Aubin
Staitieh, S.—see Butcher et al.
Standard, Gary W.—see Rockett et al.
_____, and Mark E. Chittenden, Jr., FB 82:337
Stanley, Drew D.—see Myrick et al.
Stansby, Maurice E., MFR 46(2):60
Starr, Paul—see Beacham and Starr
Stauffer, Gary D., MFR 47(2):2
_____, and Susan Picquelle, TR 36:33-35
_____—see Huppert et al.; MacCall et al.; Picquelle and Stauffer
Stayton, R. Lee—see Hueckel and Stayton
Steimle, Frank W., Jr.—see Caracciolo and Steimle
_____, and Larry Ogren, MFR 44(6-7):49
Stein, David L.—see Matarese and Stein
Stein, G. A., TR 25:53-54
Steuhrenberg, Lowell C.—see Liscom et al.
Stevely, John M.—see Brownell and Stevely; Palko et al.
Stevens, Bob, TR 10:29-31
Stevens, Bradley G., and David A. Armstrong, FB 79:349; FB 82:469
Stevens, Fred S.—see Brown et al.
Stevenson, David K., and Francisco Carranza, FB 79:689
_____, and Fran Pierce, FB 83:219
Stewart, E. F.—see Mullin et al.
Stickney, Alden P.—see Shumway et al.
Stillwell, Charles E.—see Casey et al.; Medved et al.
Stogner, Lawrence B., TM SEFC-13
Stoker, Samuel W.—see Fay et al.
Stone, Frederick E.—see Barnett et al.
_____, Harold J. Barnett, Patrick J. Hunter, Glenn C. Roberts, and Richard W. Nelson, MFR 43(1):21
Stone, H. Sheridan, TM F/SWR-012; TM SWFC-47
Stone, James H.—see Bishop et al.
Stone, Richard B., MFR 44(6-7):2; TM OF-6
Stoner, Allan W., FB 78:337; FB 81:837
Stout, Robert G.—see Gruber and Stout
Stout, Virginia F., FB 78:51
_____, and F. Lee Beezhold, MFR 43(1):1
_____, Clifford R. Houle, and F. Lee Beezhold, MFR 43(3):1
Strand, Ivar E., Jr.—see Marchesseault et al.
Strange, E. M.—see Bronstein et al.
Straty, Richard R.—see Carlson and Straty
Strong, Craig S.—see Ainley et al.
Stroud, Richard K.—see Kajimura et al.
_____, Clifford H. Fiscus, and Hiroshi Kajimura, FB 78:951
Struhsaker, Paul C.—see Uchiyama and Struhsaker
Stuntz, Warren E.—see Coe and Stuntz
Sugarman, Peter C.—see Pearson et al.
Sulkin, S. D.—see Van Heukelem et al.
Sullivan, Bolling, Katie Miller, Kathleen Singleton, Anthony G. Scheer, and Austin B. Williams, FB 81:883
Sullivan, Craig—see Dickhoff et al.
Sullivan, Eulalie—see Browder et al.
Sullivan, L. F.—see Hollaway and Sullivan; Neal et al.
Sullivan, Loretta F., FB 83:677
Summers, J. Kevin—see Ulanowicz et al.

Summerson, H. C.—see Peterson et al.
Summerson, Henry C.—see Peterson et al.
Sumner, Marjorie W.—see McHugh et al.
Sumpter, Charles R.—see Braddon and Sumpter
Sund, Paul N., S 744; TM SWFC-43; TM SWFC-53
Sutherland, Doyle F., and William A. Fable, Jr., TM SEFC-12
Swan, Nancy Pola, and W. James Ingraham, Jr., TM F/NWC-57
Swartz, A. N., TM F/NWC-39
Swartz, A. Nelson—see Tettey et al.
Swartz, Steven L., FB 79:360
Swartzman, Gordon L., and Robert T. Haar, FB 81:121
Sydlowski, Jane S.—see Siewicki et al.
Sykes, James E., TM SER-2

T

Tagami, Darryl T.—see Uchida and Tagami
Tanaka, Kuniaki, Yasuo Mugiya, and Juro Yamada, FB 79:459
Taniguchi, Michiko, TR 10:21-24
Tashiro, Joseph E., TM SEFC-8; TM SEFC-60; TM SEFC-81
Taubert, Bruce D.—see Dadswell et al.
Taylor, Charles W.—see Watson et al.
Taylor, D. M., R. G. Hooper, and G. P. Ennis, FB 83:707
Taylor, J. R.—see Nakamura et al.
Taylor, Ronald G.—see Trent et al.
Taylor, Ronald M., C 446
Taylor, Sidney G., MFR 47(1):39
_____—see Bailey and Taylor; Bailey et al.
Taylor, Steve L., and Marci W. Speckhard, MFR 45(4-6):35
Teel, David J.—see Grant et al.; Milner et al.
Teeny, Fuad M.—see Conrad et al.
Tejada, M.—see Borderias et al.
Terry, Joseph M.—see Balsiger et al.
Teshima, Kazuyuki—see Bakkala et al.
Teshima, Shin-ichi—see Kanazawa et al.
Testaverde, Salvatore A., and James G. Mead, FB 78:167
Tester, Patricia, Cynthia Wolfe, Robert Dixon, and Gene R. Huntsman, TM SEFC-115
Tettey, Ernest O., and Wade L. Griffin, MFR 46(2):49
_____, Christopher Pardy, Wade Griffin, and A. Nelson Swartz, FB 82:365
Thayer, G. W.—see Colby et al.
Thayer, Gordon W.—see Lindall and Thayer
Theilacker, Gail H., FB 78:685, 789
Theroux, Roger B., and Roland L. Wigley, S 768
Thomas, David H., FB 83:682
Thompson, Mary H.—see Love et al.
Thompson, Perry A., Jr., TM SEFC-64
Thorne, Richard E.—see Trumble et al.
Thorsen, Kenneth—see Wespestad et al.
Thorson, Lee C., C 437
Tidwell, D.—see Jones et al.
Tillery, J., TM SEFC-31; TM SEFC-42
Tillman, Michael F., MFR 42(9-10):2
Tilseth, S., and B. Ellertsen, FB 82:141
Timko, Robert E.—see Kemmerer et al.
_____, and David DeBlanc, MFR 43(3):20
_____, and A. Lawrence Kolz, MFR 44(4):19
Tinker, Burton L.—see Gorga et al.
Titar, V. M.—see Kazachenko and Titar
Tkachuk, L. P., TR 25:45-46
Todd, Ethel I.—see Scheffer et al.
Todd, Ruth, and Doris Low, C 439
Togstad, Heidi A.—see Grant et al.
Toll, Ronald B., and Steven C. Hess, FB 79:765
Tomlinson, M. S.—see Danek and Tomlinson
Townsend, David W.—see Barker et al.
_____, and Joseph J. Graham, FB 79:123
Townsend, Ralph—see Briggs et al.
Trautman, Milton B., TM ABFL-2
Traynor, Jimmie J.—see Bakkala et al.; Dark et al.
Trent, Lee—see Brusher et al.; Fable and Trent; Fable et al.; Williams et al.
_____, Carl H. Saloman, and Steven P. Naughton, TM SEFC-119
_____, Roy O. Williams, Ronald G. Taylor, Carl H. Saloman, and Charles S. Manooch III, FB 81:709; TM SEFC-52
Tretsven, Wayne I., and Benjamin G. Patten, MFR 43(4):16
Trimm, David L.—see Sheridan and Trimm
True, Ruth H.—see Slabyj et al.
Trumble, Robert J., Richard E. Thorne, and Norman A. Lemberg, FB 80:381
Tsareva, L. A.—see Potievski et al.
Tubiash, Haskell S.—see Eisenberg et al.
Tucker, John W., Jr., FB 80:35
Tucker, Luther—see Setzler et al.
Tuhkunen, Bette E.—see Ravesi et al.
Turner, Jefferson T., TR 7
Turner, S. C.—see Grimes et al.
_____, C. B. Grimes, and K. W. Able, FB 81:751
Tyler, A. V.—see Gabriel and Tyler
Tyler, Albert V.—see Overholtz and Tyler
Tyler, James C., C 434

U

Uchida, Richard N., C 436; TM SWFC-33
_____, and Darryl T. Tagami, MFR 46(2):1
Uchiyama, James H., and Paul Struhsaker, FB 79:151
Ueda, Kazuo, TR 27:97-102
Uki, Nagahisa, TR 16:83-88
Ulanowicz, Robert E., Mohammed Liaquat Ali, Alice Vivian, Donald R. Heinle, William A. Richkus, and J. Kevin Summers, FB 80:611
Ulrich, G. F.—see Low et al.
Umeda, Y.—see Bakkala et al.
_____, and R. Bakkala, TM F/NWC-49
Umezawa, Satoshi—see Nogami et al.
Upton, Steve J., David W. Reduker, William L. Current, and Donald W. Duszynski, TR 11
Uspenskaya, A. V., TR 25:61-62
Utter, Fred M.—see Grant et al.; Milner et al.; Wishard et al.

V

Vandevere, Judson E.—see Loughlin et al.
Van Dolah, Frances M.—see Siewicki et al.
Van Dolah, R. F.—see Wenner et al.
Van Duzer, John P.—see Pietsch and Van Duzer
Van Heukelem, W., M. C. Christman, C. E. Epifanio, and S. D. Sulkin, FB 81:903
Vaughan, D. S., TM SEFC-165
Venrick, E. L., FB 81:375
Verity, Peter G.—see Durbin et al.
Vik, Susan R.—see Sheehy and Vik

Vinogradov, M. E., TM F/NEC-34
Vinter, Beverly M.—see Kendall and Vinter; Matarese and Vinter
Vivian, Alice—see Ulanowicz et al.
Vreeland, Robert R., and Roy J. Wahle, FB 81:143

W

Wada, Koji, TR 16:89-92
Wahle, Roy J.—see Smith and Wahle; Vreeland and Wahle
_____, and Ed Chaney, FB 79:507
_____, _____, and Roger E. Pearson, MFR 43(12):1
_____, and Roger E. Pearson, MFR 46(3):34
_____, and Waldo S. Zaugg, MFR 44(11):11
Wahlen, Bruce E.—see Lo et al.
_____, and Tim D. Smith, FB 83:521
Wakabayashi, Kiyoshi—see Sample et al.; Wilderbuer et al.; Yabe et al.
Waldhauer, R.—see Draxler et al.
Walker, G. J.—see Perrin et al.
Wall, Janet—see Edwards et al.; French et al.; Nelson et al.
_____, Robert French, and Russell Nelson, Jr., MFR 43(5):20
Walsh, William A., and William A. Lund, Jr., FB 81:781
Walters, G. E., TM F/NWC-40
_____, and M. J. McPhail, TM F/NWC-35
Walters, Gary E.—see Smith et al.
_____, Gary B. Smith, Paul A. Raymore, Jr., and Wendy Hirschberger, TM F/NWC-77
Walton, James M., MFR 44(6-7):45
Waltz, C. Wayne, William A. Roumillat, and Charles A. Wenner, FB 80:863
Wang, Der-Hsiung—see Marchesseault et al.
Wánkowski, J. W. J., FB 79:517
Ward, Donn R., Ranzell Nickelson II, Gunnar Finne, and Debra J. Hopson, MFR 45(7-9):38
Ward, John M., TM SEFC-86; TM SEFC-88
_____, and John R. Poffenberger, MFR 44(9-10):55; TM SEFC-84
Warlen, Stanley M., and Alexander J. Chester, FB 83:587
Warren, J. P.—see Grant et al.
Warren, John P., and Wade L. Griffin, MFR 42(2):1
Washington, Betsy B.—see Richardson and Washington
Wass, Richard C., S 781
Waterman, Samuel—see Mitsuoka et al.
Waters, Melvin E., MFR 44(11):14; MFR 45(7-9):27; TM SEFC-54
_____—see Hale and Waters; Love et al.; Rasekh et al.
Watkins, William A., and William E. Schevill, FB 80:875
Watson, Alan P.—see Gaskin and Watson
Watson, John W., Jr., Ian K. Workman, Charles W. Taylor, and Anthony F. Serra, TR 3; TM SEFC-3
Watson, William, FB 80:403; FB 81:847
_____—see Barnett et al.
Watts, Noel H., and Gilmore J. Pellegrin, Jr., MFR 44(9-10):44
Weatherall, Jerry A.—see Laurs and Weatherall
Webb, P. W., FB 79:271, 727
_____, and R. T. Corolla, FB 79:143
_____, and Raymond S. Keyes, FB 80:803
Weddig, Lee J., MFR 42(1):1
Wedemeyer, Gary A., Richard A. Saunders, and W. Craig Clarke, MFR 42(6):1
Weeks, Ann, and Albert C. Jones, TM SEFC-1
Wehling, William E.—see Robinson et al.
Weihs, Daniel, FB 78:109; FB 79:171
Weinberg, Kenneth L., Mark E. Wilkins, and Thomas A. Dark, TM F/NWC-70
Weinstein, Michael P.—see Smith et al.
_____, Sidney L. Weiss, Ronald G. Hodson, and Lawrence R. Gerry, FB 78:419
Weis, Judith Shulman—see Weis and Weis
Weis, Peddrick, and Judith Shulman Weis, FB 78:163
Weiss, Sidney L.—see Weinstein et al.
Welden, Bruce A.—see Cailliet et al.
Wells, John A.—see Richards et al.
Wells, R. S.—see Irvine et al.
Wells, Randall S.—see Irvine et al.; Mead et al.
Wenner, Charles A., FB 81:537
_____—see Waltz et al.
Wenner, E. L., W. P. Coon III, M. H. Shealy, Jr., and P. A. Sandifer, S 782
_____, P. Hinde, D. M. Knott, and R. F. Van Dolah, TR 18
Wenner, Elizabeth Lewis, Malcolm H. Shealy, Jr., and Paul A. Sandifer, S 757
Wertheimer, Alex C., and James R. Winton, TM F/NWC-22
Wespestad, V. G.—see Bakkala et al.
Wespestad, Vidar G., TM F/NWC-24
_____, Richard Bakkala, and Jeffrey June, TM F/NWC-25
_____, R. Nelson, and B. Gibbs, TM F/NWC-31
_____, Kenneth Thorsen, and Sally A. Mizroch, FB 81:415
West, Charles W., MFR 47(2):47; TM F/NWC-16
West, D.—see Middleditch and West
Westphal, William V.—see Love and Westphal; Love et al.
Wetherall, J.—see Parrish et al.
Wetherall, Jerry A., FB 80:687
_____—see Yong and Wetherall
_____, and Marian Y. Y. Yong, TM SWFC-13
Wheeler, Charles L.—see Lux et al.
Whipple, Jeannette A.—see Eldridge et al.; Moser et al.
_____, Marvin Jung, R. Bruce MacFarlane, and Rahel Fischer, TM SWFC-46
Whitaker, D. J.—see Kabata and Whitaker
Whitaker, Donald R., MFR 42(1):4; MFR 47(1):100
Whitaker, J. David, MFR 42(7-8):39
White, Merrill J., Jr., Jacqueline G. Jennings, Walter F. Gandy, and Lanny H. Cornell, TM SWFC-16
Whitledge, Terry E., FB 80:327
Whoriskey, F. G., Jr., FB 81:426
Wibbels, T.—see McVey and Wibbels
Wibbels, Thane R., TM SEFC-131
Wiebe, P. H., S. H. Boyd, B. M. Davis, and J. L. Cox, FB 80:75
Wiesenburg, D.—see Brooks et al.
Wigley, Roland L.—see Dickinson and Wigley; Dickinson et al.; Maurer and Wigley; Theroux and Wigley
Wigren, Catherine A.—see MacLeod et al.
Wilder, Pamela J.—see Liscom et al.
Wilderbuer, Thomas K.—see Ronholt et al.
_____, Kiyoshi Wakabayashi, Lael L. Ronholt, and Hirotsune Yamaguchi, TM F/NWC-93
Wilen, James E.—see Botsford et al.
Wiley, Nancy—see Eber and Wiley
Wilhelm, Kurt A., MFR 44(2):17
Wilk, Stuart J.—see Fogarty et al.
Wilkins, Bruce T.—see Dawson and Wilkins
Wilkins, M. E.—see Dark et al.
Wilkins, Mark E., MFR 42(3-4):48
_____—see Weinberg et al.

Williams, Austin B., FB 81:863
_____—see Millikin and Williams; Reames and Williams; Sullivan et al.
_____, and David McN. Williams, FB 79:192
Williams, David McN.—see Williams and Williams
Williams, Happy A.—see Polovina et al.
Williams, Mark L.—see Barger and Williams; Brusher et al.; Johnson et al.
_____, H. Brusher, and Lee Trent, TM SEFC-129
_____, Harold A. Brusher, Barbara J. Palko, and Lee Trent, TM SEFC-139; TM SEFC-157
Williams, R. R.—see Lightner et al.
Williams, Roy O.—see Trent et al.
Williams, Vern R., and Thomas A. Clarke, FB 81:587
Wilson, Charles A., and John M. Dean, TR 8:151-156
Wilson, James—see Briggs et al.
Wilson, Kenneth C.—see Grant et al.
Wilton, Donald P.—see Menz and Wilton
Winans, Gary A.—see Milner et al.
Winemiller, L. F.—see Bauersfeld and Winemiller
Wing, Bruce L., TM F/NWC-91
_____—see Krieger and Wing
Wingert, R. Craig—see Quinn et al.
Winkler, Delaine L., Keith L. Duncan, Jo Ellen Hose, and Harold W. Puffer, FB 81:473
Winn, Howard E.—see Hain et al.; Kenney et al.
Winton, James R.—see Wertheimer and Winton
Wishard, Lisa N., Fred M. Utter, and Donald R. Gunderson, MFR 42(3-4):64
Withler, Fred C.—see Dangel et al.
Witman, Jonathan D.—see Hulbert et al.
Witzell, W. N., MFR 46(3):56; TR 31:21-22
Woiceshyn, P. M.—see Brucks et al.
Wold, E.—see Smith and Wold
Wold, Einar—see Delarm and Wold
Wolf, Patricia—see Cailliet et al.
Wolfe, Cynthia—see Tester et al.
Wolff, Gary A., FB 80:357; TR 17
Wolke, R. E., and A. George, TM SEFC-24
_____, C. J. George, and V. S. Blazer, TR 25:93-97
Wolman, A. A.—see Johnson and Wolman; Rice et al.
Wolman, Allen A.—see Reilly et al.
Wolotira, Robert J., Jr., TM F/NWC-79
_____—see Sample and Wolotira
Wood, Kathryn V.—see Setzler et al.
Wood, Richard S.—see Olsen et al.
Woodhead, Peter M. J., Jeffrey H. Parker, and Iver W. Duedall, MFR 44(6-7):16
Woodruff, Dana L.—see Pearson et al.
Workman, I. K.—see Nakamura et al.
Workman, Ian K.—see Watson et al.
Worthen, Gary L., TM SWFC-9
Wright, Andrew—see Doulman and Wright
Wright, W. Redwood, TM F/NEC-23
Wroblewski, J. S.—see Flierl and Wroblewski
Wu, I-Pai—see Frank et al.
Würsig, Bernd, Eleanor M. Dorsey, Mark A. Fraker, Roger S. Payne, and W. John Richardson, FB 83:357
Wurtele, M. G.—see Brucks et al.
Wyatt, B. B.—see Bronstein et al.

Y

Yabe, Mamoru, Daniel M. Cohen, Kiyoshi Wakabayashi, and Tomio Iwamoto, FB 79:353
Yamada, Juro—see Tanaka et al.
Yamaguchi, Hirotsune—see Bakkala et al.; Sample et al.; Wilderbuer et al.
Yatsuyanagi, Kenro—see Kurata et al.
Yoklavich, Mary M.—see Boehlert and Yoklavich
Yong, Marian Y. Y.—see Wetherall and Yong
_____, and Jerry A. Wetherall, TM SWFC-2
Yoshida, Howard O., C 432
_____—see Shomura and Yoshida
Yoshinaga, Derrick H.—see Frank et al.
Yost, Reuben—see Holland et al.
Yurakhno, Mikhail V.—see Delyamure et al.

Z

Zamora, Gilbert, Jr.—see Zimmerman et al.
Zaugg, Waldo S.—see Folmar et al.; Wahle and Zaugg
Zaugg, Wally S.—see Gould et al.
Zdanowicz, Vincent S.—see Reid et al.
Zenger, H., and S. E. Hughes, TM F/NWC-7
Zenger, Harold H., Jr., TM F/NWC-20; TM F/NWC-82
Zhukov, E. V., TR 25:47-48
Zimmerman, Roger J., Thomas J. Minello, and Gilbert Zamora, Jr., FB 82:325
Zion, Henry H.—see Setzler et al.
Zubchenko, A. V., TR 25:19-23
Zuboy, J. R.—see Jones et al.
_____, and A. C. Jones, TM SEFC-17
Zuboy, James R., TM SEFC-19
_____, and J. Ernest Snell, TM SEFC-21; TM SEFC-79
Zweifel, James R.—see Jones and Zweifel

A

Abalone culture in Japan, TR 16
Abraliopsis affinis
  identification and estimation of size from beaks, TR 17
Abraliopsis felis
  identification and estimation of size from beaks, TR 17
Absorption
  radiologic evaluation
    diatrizoate in marine turtles, TM SEFC-93
Acanthophora
  as substrate for *Gambierdiscus toxicus*, MFR 46(1):16
Acanthpagrus schlegelii—see Porgy
Acanthuridae
  proximate chemical composition, MFR 46(3):71
Acanthurus lineatus—see Surgeonfish, blueline
Achromobacter
  in freshly caught marine fish, MFR 45(4-6):35
Acipenser brevirostrum—see Sturgeon, shortnose
Acipenser oxyrhynchus—see Sturgeon, Atlantic
Acipenser transmontanus—see Sturgeon, white
Aerobic plate count (APC)
  cooking processes, blue crab, MFR 45(7-9):39
Africa, northwestern
  cephalopod fishery management model, MFR 43(11):1
  upwelling ecosystem
    regeneration of nitrogen by nekton, FB 80:327
Age composition
  anchovy, northern, FB 83:483
Age determination
  alewife, FB 83:696
  billfishes, sharks, tunas, TR 8
  dolphins, northern offshore spotted, TM SWFC-35
  dolphins, spinner
    from teeth, TM SWFC-30
  dolphins, spotted
    from teeth, TM SWFC-30
  evaluating hard parts
    croaker, Atlantic, TM SEFC-22
    flounder, gulf, TM SEFC-132
    flounder, southern, TM SEFC-132
    jack, crevalle, TM SEFC-132
    ladyfish, TM SEFC-132
    pompano, TM SEFC-132
    seatrout, sand, TM SEFC-22
    seatrout, silver, TM SEFC-22
    spot, TM SEFC-22
  fishes, FB 83:103
  multiple regression models, FB 83:103
  sailfish
    morphological features of otoliths, FB 79:360
  scale and otolith methods, FB 83:696
Age discussion
  seatrout, sand, TM SEFC-14
  seatrout, silver, TM SEFC-14
  spot, TM SEFC-14
Age distribution
  dolphins, spotted
    interpretations of, TM SWFC-48
Age studies
  tuna, bluefin
    annotated list of references, TM SEFC-113
Age-frequency estimation
  bias resolution, FB 81:93
  biases, FB 81:92
  bonito, Pacific, FB 81:91
  clam, hard, FB 81:772
  cod, Atlantic, FB 81:304
  commercial fisheries, FB 81:723
  croaker, Atlantic, FB 81:405
  halibut, Greenland, FB 81:599
  herring, gold spot, FB 81:593
  mackerel, king, FB 81:99
  mortality rates, FB 81:898
  nonsalmonids, FB 81:817
  salmonids, FB 81:817
  shrimp, pink, FB 81:456
  snapper, Hawaiian, FB 81:531
  spot, FB 81:405
  tuna, southern bluefin, FB 81:726
  von Bertalanffy growth equation, FB 81:92
Age-size estimation
  anchovy, northern, FB 81:743
  clam, hard, FB 81:697
  cod, Atlantic, FB 81:304
  crab, blue king, FB 81:621
  crab, deep-sea red, FB 81:903
  crab, Dungeness, FB 82:471
  crab, rock, FB 81:357
  croaker, FB 81:793
  croaker, white, FB 82:183
  dolphin, Hawaiian spinner, FB 82:207
  drum, banded, FB 82:233, 353, 355
  eel, American, FB 82:519
  halibut, Greenland, FB 81:599
  herring, Pacific, FB 82:115
  kingfish, southern, FB 82:427
  lobster, American, FB 82:244
  mackerel, king, FB 81:709
  menhaden, Atlantic, FB 81:133
  midshipman, plainfin, FB 82:165
  nonsalmonids, FB 81:817
  quahog, ocean, FB 82:1, 254
  ribbonfish, FB 81:161
  rockfish, FB 82:249
  salmon, chinook, FB 82:158
  salmonids, FB 81:817
  shrimp, FB 81:792
  shrimp, freshwater, FB 81:656
  shrimp, mantis, FB 82:420
  snapper, Hawaiian, FB 81:531
  splittail, FB 81:649
  spot, FB 81:792
  tetracycline use, FB 82:237
  tilefish, FB 81:756
  triggerfish, gray, FB 82:488
  weakfish, FB 81:803

Agonidae
ichthyoplankton off Kodiak Island, Alaska, TR 20
Airborne Fish Monitoring Program
California, southern and central
abundance of pelagic resources, 1963-78, S 762
Alabama
ice plant survey, 1980-81, MFR 44(9-10):55
Alaska
groundfish species
spawning, 1975-81, TM F/NWC-44
kelp
rope culture, MFR 43(2):19
oil effects research
fish, TM F/NWC-67
invertebrates, TM F/NWC-67
perch, Pacific Ocean
biological and economic assessment, TM F/NWC-72
salmon
fry production in gravel hatchery, TM ABFL-3
improved incubator, TM ABFL-1
presmolt identification, TM ABFL-2
shellfish fishery
economic impacts, TM F/NWC-9
Alaska, Little Togiak River fishery, FB 82:402
Alaska, lower Cook Inlet
crab, snow
description of stage II zoeae from plankton, FB 79:177
Alaska, northern
gadids, marine
trophic importance of, and their body-otolith size relationships, FB 79:187
Alaska, southeastern
beach seine samples, nearshore waters
numbers, maturity stages, and species of fish caught, TM F/NWC-86
cod, Pacific
summer food, FB 78:968
rockfish, Pacific
habitat and nursery grounds in rocky coastal areas, MFR 43(7):13
sablefish
abundance and size composition, 1978-80, TM F/NWC-7
abundance and size composition, 1978-81, TM F/NWC-20
fish trap performance, TM F/NWC-76
scarred Pacific salmon at freshwater recovery sites, MFR 47(1): 39
Alaska, western
cod, saffron
resource assessment and potential, TM F/NWC-79
groundfish
economic feasibility of domestic harvest, FB 79:303
Alaska Troll Logbook Program
salmon
stomach contents, 1977-84, TM F/NWC-91
Albacore
budget simulation model for west coast troller, TM SWFC-57
California
sea-surface temperature effects on sport fishing, S 759
commercial passenger fishing vessel industry, MFR 47(3):48
eastern North Pacific
longline and trolling exploration, 1981, TM SWFC-10
Albacore (continued)
fishing off California
relationship to sea surface temperature isotherms, TM SWFC-11
growth rates of North Pacific based on tag returns
covariance analysis, FB 79:297
data screening, FB 79:294
extended model, FB 79:299
grouping of data, FB 79:295
growth models, FB 79:295
parameter estimation, FB 79:296
recovery procedures, FB 79:294
standard model, FB 79:297
tagging procedures, FB 79:293
NMFS Albacore Program
operational plan, TM SWFC-52
optimum sea surface catch temperature, MFR 45(4-6):31
transpacific migrations, MFR 46(3):8
U.S. tuna trade summary, 1982, MFR 46(1):1
U.S. tuna trade summary, 1983, MFR 46(4):65
used in determining squid jigging locations, MFR 45(7-9):57
Albacore fleet
U.S. west coast
equipment and fishing methods, TM SWFC-8
Albula vulpes—see Bonefish
Aleutian Islands
fishery resources
groundfish, 1980, TM F/NWC-23
groundfish, 1982, TM F/NWC-42
groundfish, 1983, TM F/NWC-53
groundfish, 1984, TM F/NWC-83
groundfish trawl survey
U.S.-Japan, 1980, TM F/NWC-93
marine mammal resources
northern sea lion census and notes on other marine mammals, 1979, TM F/NWC-17
sampling by U.S. observers on foreign fishing vessels, 1977-78, MFR 43(5):1
seabird resources, TM F/NWC-17
Alewife
anadromous
sex ratio differences between top and bottom of fishway at Damariscotta Lake, Maine, FB 79:207
decrease in length at predominant ages during spawning migration, FB 80:902
offshore distribution along the Atlantic coast
commercial catches, FB 79:481
depth distribution, FB 79:482
seasonal distribution, FB 79:476
Alfonsin
distribution, MFR 46(2):15
fisheries, MFR 46(2):15
life history, MFR 46(2):15
Alopias superciliosus—see Thresher, bigeye
Alosa aestivalis—see Herring, blueback
Alosa pseudoharengus—see Alewife; Alewife, anadromous
Alosa sapidissima—see Shad, American
Amberjack
charterboat fishery harvest, Alabama, MFR 45(1):15
seamount fishery research, central North Pacific, MFR 46(2):11
American Fisheries Promotion Act of 1980
U.S. fishery resources, management and conservation, MFR 45(7-9):21

Ammodytes spp.—see Sand lance
Ammodytidae
ichthyoplankton off Kodiak Island, Alaska, TR 20
Ampelisca agassizi—see Amphipods, benthic
Amphipoda
life history, distribution, and abundance in the New York Bight, S 766
Amphipoda, Grammaridean
Georges Bank
distribution, S 746
Middle Atlantic Bight region
distribution, S 741
species accounts, S 741
Amphipods, FB 82:55
benthic, parasites of, FB 83:497
Amphiprion percula
responses of northern anchovy to predation by, FB 79:727
Analysis, graphical
Kemp's ridley sea turtle, captive-reared
patterns and variability in first-year growth and weight, TM SEFC-164
Anarrhichthys ocellatus—see Eel, wolf
Anatomy, visceral
sea turtle, TM SEFC-82
Anchoa mitchelli—see Anchovy, bay
Anchovy
baitfish use, Papua New Guinea's tuna fishery, MFR 45(10-12): 50
bay
marsh habitat, FB 82:457
Hawaiian, or nehu, FB 81:587
larval abundance
egg and larval retention in mesh nets, TM SWFC-31
temperature dependent incubation time, TM SWFC-31
yolk-sac growth rate, TM SWFC-31
northern Pacific
recruitment studies, MFR 45(10-12):4, 11
Anchovy, black sea
influence of helminths on tissue lipids, TR 25
Anchovy, northern, FB 82:68, 113
age determination, FB 81:743
associated with juvenile subyearling chinook salmon, FB 81: 815
burst swimming performance of larvae, FB 79:143
California, southern and central
resource abundance as measured by Airborne Monitoring Program, 1963-78, S 762
changes in body measurements of larvae due to handling and preservation
eye diameter, FB 78:690
laboratory shrinkage, FB 78:687
live body parts, FB 78:686
net-treatment shrinkage, FB 78:688
preservation shrinkage (after net treatment), FB 78:690
direct method for estimating spawning biomass, FB 78:541
effects of copper on early life history stages, FB 78:675
egg cannibalism, FB 78:811
egg production and mortality rate, FB 83:137
egg production method for biomass assessment, TR 36
environmental conditions, FB 81:748
feeding selectivity of schools in Southern California Bight
comparison of feeding selectivity between cruises, FB 79:138
Anchovy, northern (continued)
feeding selectivity (continued)
comparison with other studies, FB 79:140
evaluation of field method, FB 79:139
school characteristics, FB 79:133
school feeding, FB 79:134
fish population dynamics, FB 81:741
fishery management
biological and economic basis, TM SWFC-1
growth and age composition, FB 83:483
juvenile samples, FB 81:742, 746
larvae, emaciated and robust
histochemical indications of liver glycogen in samples, FB 79:806
larvae, percentage of starving in southern California Bight
classification of larvae, FB 78:481
digestive tract, FB 78:479
geographical distribution, FB 78:481
other organs, FB 78:481
plankton volume, FB 78:486
standard length, FB 78:481
surface temperature, FB 78:485
trunk musculature, FB 78:476
larval abundance, FB 81:41, 744, 747
otolith preparation, FB 81:743
rates of ovarian atresia, FB 83:119
reproduction off Oregon and Washington
fecundity, FB 78:611
gonadal condition, FB 78:606
length and age at sexual maturity, FB 78:606
ovarian maturation, FB 78:607
seasonal distribution, FB 78:615
sex ratio, FB 78:607
spawning frequency, FB 78:612
respiration and depth control as possible reasons for swimming of larvae, FB 78:109
responses to predation by *Amphiprion percula*, FB 79:727
schooling behavior, FB 83:235
size, birth-date, FB 81:744, 747
spawning biomass and early life history off Oregon and Washington
comparison of northern and central subpopulations, FB 78: 871
egg and larvae census estimates, FB 78:858, 867
field procedures, FB 78:857
hydrography and plankton volume, FB 78:862
laboratory procedures, FB 78:858
larval transport and juvenile nurseries, FB 78:873
relationship with Columbia River plume, FB 78:872
spawning biomass estimates, FB 78:859, 868
subpopulation, northern, FB 78:856
yield estimates, FB 78:862, 870
spawning energetics of female
annual fat cycle and spawning, FB 79:223
energy budget for female growth and reproduction, FB 79: 224
energy cost of spawning, FB 79:221
spawning frequency and rate of egg maturation, FB 79: 218
vertical stratification off southern California, FB 80:895
Anemone, bay
as oyster seed bed predators, northeastern U.S., MFR 45(3):5

Anglerfish
osteology and relationships of genus *Tetrabrachium*
comparative osteology of antennarioid families, FB 79:397
osteology, FB 79:390
phylogenetic relationships, FB 79:412
systematics, FB 79:388
Anglerfish, ceratioid
Philippine Archipelago
Caulophrynidae, FB 78:380
Caulophrynidae genera and species key, FB 78:380
Centrophrynidae, FB 78:395
Ceratiidae, FB 78:395
Ceratiidae genera and species key, FB 78:395
Ceratioidei family key, FB 78:379
Diceratiidae, FB 78:381
Diceratiidae genera and species key, FB 78:381
Gigantactinidae, FB 78:396
Himantolophidae, FB 78:381
Linophrynidae, FB 78:396
Linophrynidae genera and species key, FB 78:396
Melanocetidae, FB 78:381
Melanocetus species key, FB 78:381
Oneirodes species key, FB 78:382
Oneirodidae, FB 78:382
Oneirodidae genera key, FB 78:382
Thaumatichthyidae, FB 78:395
systematics and distribution
distribution, FB 78:83
evolutionary relationships, FB 78:84
genus *Melanocetus*, FB 78:70
key to species based on females, FB 78:70
Melanocetus eustalus n. sp., FB 78:79
Melanocetus johnsoni, FB 78:71
Melanocetus murrayi, FB 78:78
Melanocetus niger, FB 78:78
Melanocetus polyactis, FB 78:77
Melanocetus species, FB 78:83
osteology of females, FB 78:61
type genus *Melanocetus*, FB 78:67
Anguilla anguilla—see Eel, Atlantic
Anguilla rostrata—see Eel, American
Animals, aquatic
tissue lesions
induced by controlled exposure to environmental contaminants, chemotherapeutic agents, and potential carcinogens, MFR 44(12):1
Anisakis sp. (nematodes)
larval infection in striped bass, TR 29
Annelida
life history, distribution, and abundance in New York Bight, S 766
Anoplopoma fimbria—see Sablefish
Anoplopomatidae
ichthyoplankton off Alaska, TR 20
Antarctic
krill, review, S 769
parasitic fauna, TR 25
Antarctic Peninsula
feeding ecology of some fishes, FB 80:575
Antenna
quarterwave stub
evaluation for Tiros satellite application, TM SEFC-13
Anthias bicolor—see Dogfish, horny
Anthozoa
life history, distribution, and abundance in New York Bight, S 766
Antioxidant
effect of TBHQ, on lipid oxidation, blueback herring, TM SEFC-75
AOAC multiresidue procedure for pesticides, FB 81:391
Aprionodon
additions to revision of shark genus Carcharhinus, TR 34
Aquaculture
bass, striped
artificial propagation, TR 10
environmental stress and disease relationships, TR 27
finfish culture, proceedings, TR 10
freshwater
catfish, C 447
development and smoltification in coho salmon from Columbia River, C 447
finfish culture in Japan, C 447
salmonid enhancement, C 447
genetic selection and breeding in salmonid culture, TR 27
Japan
brown algae, C 442
phytoplankton, C 442
porphyra, C 442
marine
fish diseases in Far East, TR 25
molluscan mariculture in the greater Carribean MFR 47(4):1
soybean meal in trout and salmon diets, C 447
United States
phytoplankton, C 442
seaweed, C 442
Aquarium, marine
balancing, how to, TM SEFC-59
biology of fishes collected in Monroe County, Florida, TM SEFC-59
Aquatic species
comparison of rearing costs and returns of selected herbivores, omnivores, and carnivores, MFR 43(9):23
Arabian Gulf
fishes, food
proximate composition and nutritive value, FB 79:211
Aracanidae—see Plectognath fishes
Archaeogastropods
Trochus incrassatus, MFR 46(4):79
Trochus maculatus, MFR 46(4):79
Trochus pyramis, MFR 46(4):78
Turbo argyrostoma, MFR 46(4):79
Archiannelida
life history, distribution, and abundance in New York Bight, S 766
Arctic
identification guide for whales, dolphins, porpoises, C 444
Arctica islandica—see Quahog, ocean
Arctocephalus gazella—see Seal, Antarctic fur
Arctocephalus pusillus—see Seal, Cape fur
Argonata sp.
association between, and aggregate salps, FB 80:648
Armorhead, pelagic
distribution, MFR 46(2):13
feeding behavior, MFR 46(2):13
fisheries, MFR 46(2):14
life history, MFR 46(2):13

Armorhead, pelagic (continued)
migration, MFR 46(2):13
morphological differences, MFR 46(2):14
population, MFR 46(2):13
Aroclor—see Finfish
Arthropoda
life history, distribution, and abundance in New York Bight, S 766
Artificial propagation
salmon, coho, mid-Columbia River system, MFR 46(3):34
Ascelichthys rhodorus—see Sculpin, rosylip
Ascomycetes—see Lichens
Asterias forbesi—see Starfish
Astropectinidae—see Starfish
Atherinops affinis—see Topsmelt
Atlantic and Gulf of Mexico coasts
crab, blue
biological data, TR 1
Atlantic Bight
Callinectes larvae, 1975-77, FB 78:251
diel-depth distribution of summer ichthyoplankton, FB 79:705
flounder, summer
stock discrimination workshop proceedings, TM F/NEC-18
mackerel, Atlantic
spawning and fecundity, FB 78:103
ocean quahog growth, FB 80:21
porgy, whitebone
biology, FB 80:863
tilefish
preliminary analysis of fishery, MFR 42(11):13
Atlantic Bight, Middle
grammaridean amphipods
distribution, C 442
species, C 442
outer continental shelf
food habits and trophic relationships of fishes, S 773
Atlantic Bight, South
invertebrate communities, TR 18
Atlantic City, New Jersey
nearshore coastal upwelling, TM F/NEC-31
Atlantic coast
alewife
offshore distribution, FB 79:473
herring, blueback
offshore distribution, FB 79:473
shrimp landings
relationship between annual ex-vessel value and size composition, MFR 42(12):18
trends in annual ex-vessel value and size composition, MFR 42(12):18
Atlantic coast, U.S.
menhaden, Atlantic
eggs and larvae, S 774
Atlantic Estuarine Fisheries Center
reports
fiscal years 1970 and 1971, TM AEFC-1
Atlantic Ocean
Japanese longline fishing
fishing activity and catch rates, 1979 and 1980, TM SEFC-125
observer data versus quarterly data reports, 1979, TM SEFC-64
observer data versus quarterly data reports, 1980, TM SEFC-125
Atlantic Ocean (continued)
survey
organic pollutants in finfish, TM F/NEC-13
tuna, bluefin
shedding rates of plastic and metal dart tags, FB 78:179
Atlantic Ocean, eastern
sailfish
size and possible origin, FB 78:805
Atlantic Ocean, middle
fisheries management
economic and biological data, TM F/NEC-5
groundfish, FB 82:295
mackerel, Atlantic
1978 spring recreational catch, FB 78:799
Atlantic Ocean, North
Turbellaria
Asceola and Nemertodermatida, C 440
Atlantic Ocean, northwest
food habits of pleuronectiforms, S 749
Atlantic Ocean, northwestern
biological considerations relevant to management of squid, MFR 42(7-8):23
fish
food of seventeen species, TM F/NEC-28
organochlorine residues, FB 78:51
food of 10 species of juvenile groundfish, FB 79:200
tuna, bigeye
gonad analyses, late summer-early winter collections, TM SWFC-14
tuna, yellowfin
gonad analyses, late summer-early winter collections, TM SWFC-14
zooplankton
effect of season and location on relationship between displacement volume and dry weight, FB 80:631
Atlantic Ocean, South
bight habitat, FB 81:537
biological data on the spottail pinfish, TR 19
Atlantic Ocean, South U.S.
bluefish
food preferences, TM SEFC-150
Atlantic Ocean, western
conch: *Strombus* spp.
annotated bibliography, S 748
crab, xanthid
Micropanope sculptipes, complete larval development in laboratory, FB 79:487
grunts: *Haemulon aurolineatum* and *Haemulon plumieri*
biological data, C 448
surveys of sea turtle habitats and populations, TM SEFC-91
tuna, bluefin
reproductive biology, FB 80:121
Atlantic Ocean, western central
fish larvae, S 776
fishes taken in longlining, C 435
Atlantic Ocean, western North
billfishes
analysis of catch and effort data from U.S. recreational fishery, 1971-78, FB 79:49
dolphin, Atlantic whitesided
southern distribution, FB 78:167

Atlantic Ocean, western North (continued)
hagfishes
description of two new species, FB 79:69
whale, humpback
feeding behavior, FB 80:259
Atlantic United States Fishery Conservation Zone
incidental capture of sharks, TR 31
Atlas
average monthly ex-vessel price per pound, 1960-81, TM SEFC-96
brown shrimp cumulative monthly catches, 1960-81, TM SEFC-96
cumulative ex-vessel value catches, 1960-81, TM SEFC-96
eastern Bering Sea
demersal fish community structure, 1971-77, TM F/NWC-40
demersal fish community structure, 1978-81, TM F/NWC-35
invertebrate community structure, 1971-77, TM F/NWC-40
invertebrate community structure, 1978-81, TM F/NWC-35
MARMAP
continental shelf survey, east coast, 1977-83, TM F/NEC-33
sea surface temperatures
California, 1980-83, TM SWFC-43
El Nino, 1982-83, TM SWFC-43
Atmosphere-ocean
California current region
heat exchange components, S 763
Atractoscion nobilis—see Seabass, white
Auke Creek, Alaska
salmon
fry production in gravel hatchery, TM ABFL-3
Australia
Gulf of Carpentaria
effect of vertical migration on dispersal of penaeid shrimp larvae, FB 80:541
lobster, rock
stock and recruitment relationships, FB 80:475
tuna, skipjack
distribution and life history, FB 79:85
Auxis rochei—see Mackerel, bullet; Tuna, bullet
Auxis thazard—see Tuna, frigat

B

Bacillus
in freshly caught marine fish, MFR 45(4-6):35
Backdown
reducing porpoise mortality in tuna purse seining, TR 13
Bacteria
Achromobacter, FB 82:377
Bacillus, FB 82:377
Buccaneer gas and oil field
environmental assessment, TM SEFC-38
milestone report to Environmental Protection Agency (EPA), TM SEFC-49
Corynebacterium, FB 82:377
Cytophaga, FB 82:377
Flavobacterium, FB 82:377
histamine producing, MFR 45(4-6):35
Louisiana salt dome brine disposal sites, 1978-79
biochemical survey, TM SEFC-27
Micrococcus, FB 82:377
Moraxella, FB 82:377
Bacteria (continued)
Pseudomonas, FB 82:377
Vibrio, FB 82:377
Bacterial spoilage
isolated from frozen tuna, MFR 45(4-6):35
Bacteriology, elasmobranch fish
analysis, FB 82:376
occurrence - muscle, FB 82:379
occurrence - teeth, FB 82:378
Baffin Bank, FB 81:600
Bairdiella chrysoura—see Perch, silver
Baitboats
foreign tuna catch and effort
central and western Pacific, 1965-77, TM SWFC-2
Baitfish
anchovy in New Guinea's tuna fishery, MFR 45(10-12):50
Baja California
whale, gray, FB 81:513, 519
Balaena glacialis—see Whale, right
Balaena mysticetus—see Whale, bowhead
Balaenoptera borealis—see Whale, sei
Balaenoptera musculus—see Whale, blue
Balaenoptera physalus—see Whale, fin
Balanus eburneus—see Barnacle
Balistes capriscus—see Triggerfish, gray
Balistes polylepis—see Triggerfish, finescale
Balistidae—see also Leatherjackets
proximate chemical composition, MFR 46(3):71
Barnacle
as oyster spat fouling organisms, MFR 45(3):5
Barracuda
guide to fishes taken in longlining, C 435
Barracuda, Pacific
California, southern and central, S 762
resource abundance, 1963-78, S 762
temperature effects on sport fishing, S 759
warm water period observations, California, MFR 45(4-6):27
Barter Island, Alaska
whale, bowhead
foods utilized, autumn 1979, MFR 42(9-10):88
Bass, kelp, FB 82:37
Bass, striped
bioenergetics and growth of embryos and larvae
energy inputs, FB 80:462, 463, 467
energy outputs, FB 80:463, 464, 470
utilization efficiency, FB 80:467
biological data
aquaculture, TR 10
commercial harvest, C 442
culture of, C 442
distribution, C 442
ecology, C 442
life history, C 442
morphology, C 442
population, C 442
recreational harvest, C 442
culture in the U.S., TR 10
effects of long-term mercury exposure on hematology, FB 80:389
gear, FB 81:421, 423
movements, FB 81:421

Bass, striped (continued)
nematode and prevalence, TR 29
nomenclature differences, MFR 45(7-9):1
pollutant burdens
histopathological manual for monitoring health, TM SWFC-46
pollution impacts on early life history stages, MFR 45(10-12):12
recruitment studies, MFR 45(10-12):4
Savannah River, Georgia, FB 81:420
Bathybelos typhlops
chaetognatha
classification, TR 15
key to species, TR 15
Bathylagidae
ichthyoplankton off Alaska, TR 20
Bathylagus stilbius—see Smoothtongue, California
Bathymasteridae
ichthyoplankton off Alaska, TR 20
Bathymetric data
temperature conditions in the Cold Pool, 1977-81, TR 24
Bay of Fundy, fish diversity, FB 82:121
Beach restoration
effects on nearshore macroinfauna, TM SEFC-133
Beach seines
Alaska, southeast
nearshore fishery sampling, 1981 and 1982, TM F/NWC-86
Columbia River, Washington
juvenile salmon catch data, 1977-83, TM F/NWC-74
juvenile salmon, marked fish recoveries, 1977-83, TM F/NWC-75
Bear, polar
satellite monitoring of winter ice cover, MFR 46(3):7
Beaufort Sea
bowhead whale
historical shore-based catch, MFR 42(9-10):5
migration, distribution, and abundance, S 778
summer distribution, MFR 42(9-10):57
white whale
migration, distribution, and abundance, S 778
Beaufort Sea, western
fishes and invertebrates trawled, S 764
Behavioral studies
anchovy, northern, FB 83:235
dolphins, FB 83:187
fish entrapment at cooling water intake structures, MFR 47(1):18
salmonids at dams, MFR 47(3):38
walrus, Pacific, TR 12
whales, bowhead, FB 83:357
Belonidae, FB 81:260
Beloniformes fishes
monogenean fauna of, TR 25
Benthic macrofauna
contaminated sediments
Long Island Sound and New York Bight, TM F/NEC-16
salt dome brine disposal sites, Louisiana, 1978-79 biochemcial survey, TM SEFC-25
secondary production
coastal Delaware and Delaware Bay, TM F/NEC-32
Benzo(a)pyrene (BaP)
carcinogenic, FB 81:473, 476, 479
concentration, FB 81:473, 478
in sand, FB 81:476, 478
in sea water, FB 81:473, 476
Benzo(a)pyrene (BaP) (continued)
in sediments, FB 81:478
metabolism by fish liver microsomes
literature review and preliminary studies, TM SEFC-123
mutagenic, FB 81:473
solubilizing or dispersing agent, FB 81:476
toxic, FB 81:473, 478
Bering Sea
abundance
distribution of groundfish catches, 1977-80, TM F/NWC-31
Pacific cod, 1982, TM F/NWC-25
Pacific cod, projected, 1982-86, TM F/NWC-25
Pacific herring, 1959-81, TM F/NWC-24
assessments
living marine resources, TM F/AKR-2
pollock abundance, S 743
atlas
demersal fish, 1971-77, TM F/NWC-40
demersal fish, 1978-81, TM F/NWC-35
invertebrate resources, 1971-77, TM F/NWC-40
invertebrate resources, 1978-81, TM F/NWC-35
data on fish species for ecosystem simulation I, TM F/NWC-29
fecal material, FB 81:515, 520
invertebrates, benthic, FB 81:515, 519
invertebrates, infaunal, FB 81:517
large bivalves, FB 81:517, 520
marine mammal predation on squids, MFR 44(2):1
new fishes, FB 79:353
numerical simulation model
temperature fluctuation effects on fish distributions, TM F/NWC-57
Psychrolutes phrictus, additional records, FB 78:169
resource use conflicts
commercial fisheries and petroleum development, TM F/AKR-2
harvest
groundfish, 1964-80, TM F/NWC-14
herring, 1964-80, TM F/NWC-14
shrimp, 1964-80, TM F/NWC-14
sampling by U.S. observers on foreign fishing vessels, 1977-78, MFR 43(5):1
snail resource and its fishery, MFR 42(5):15
survey
bottom trawl, 1983, TM F/NWC-94
bottom trawl, groundfish, 1978, TM F/NWC-55
bottom trawl, joint U.S.-Japan, 1981, TM F/NWC-88
demersal species trawl, 1979, TM F/NWC-30
demersal species trawl, 1980, TM F/NWC-49
groundfish, 1982, TM F/NWC-42
groundfish, 1983, TM F/NWC-53
groundfish, 1984, TM F/NWC-83
groundfish, joint U.S.-Japan, 1982, TM F/NWC-87
trawl, joint U.S.-U.S.S.R., 1983, TM F/NWC-85
walleye pollock
workshop, 1984, TM F/NWC-62
walrus, FB 81:501
whale, bowhead
estimated initial population size of stock, FB 78:843
historical shore-based catch, MFR 42(9-10):5
vessel surveys, June-July 1978, MFR 42(9-10):51
whale, gray, FB 81:513
whale migrations, S 778

Bering Sea, eastern
demersal fish resource, S 754
Bibliographies
Bureau of Commercial Fisheries, economic working papers series, TM SEFC-86
clam, hard, S 756
ecology of co-occurring tunas and dolphins in the eastern tropical Pacific, TM SWFC-21
economics and uncertainty, TM F/NWC-47
fish oils, TM SEFC-166
food
habits, North Pacific fishes, TM F/NWC-54
rations, TM F/NWC-63
gill net impacts
non-target species, TM F/SWR-012
interspecific hybridization
salmonids, TM NWFC-1
NMFS impact assessments
Buccaneer gas and oil fields, TM SEFC-147
brine disposal from salt domes, TM SEFC-147
karyotypic analysis
subspecific taxonomy of mammals, TM SWFC-9
RSW and CSW systems for semi-tropical waters
engineering and economics, TM SEFC-102
snappers, western Atlantic, TM SEFC-8
Bigeye, red
seamount fishery research, central North Pacific, MFR 46(2):10
Bikini, Marshall Islands
ciguatera survey, FB 78:201
Billfish
age determination, TR 8
charterboat fishery landings, Florida Gulf coast and Keys, MFR 45(1):16
guide to fishes taken in long lining, C 435
larvae
effects of deep seabed mining, TM SWFC-44
recreational fishery survey, 1977-78, TM SEFC-5
statistical results of collected data, 1972-81, TM SEFC-106
status reports on world stocks, TM SWFC-15
stock assessment
summary report of Pacific resources, TM SWFC-5
U.S. recreational fishery, 1971-78
catch model, FB 79:59
data acquisition, FB 79:52
fishing techniques, FB 79:50
longline fishery, FB 79:50
marlin, blue, FB 79:60, 64
marlin, white, FB 79:60, 64
methodology, FB 79:53
sailfish, FB 79:61, 65
sampling coverage, FB 79:53
sampling problems, FB 79:52
sampling program, FB 79:51
Biocides
Buccaneer gas and oil field environmental assessment
milestone report to Environmental Protection Agency (EPA), TM SEFC-51
Biological assessments, Alaska
perch, Pacific ocean, TM F/NWC-72
Biological implications
closed corridor option
Atlantic menhaden fishery, TM SEFC-165
Biological Investigations of Marine Antarctic Systems and Stocks (BIOMASS)
management implications, Large Marine Ecosystems (LME), MFR 45(10-12):23
Biological studies—see also Reproductive biology
mackerel, Spanish, FB 82:545
Biomass
assessment of anchovy populations, TR 36
calculation, FB 82:446
fish, kelp forest, FB 82:44
fish growth rate and mortality, TM F/NWC-58
macrophyte, FB 81:838
model investigations, dynamic effects of fishing, TM F/NWC-41
zooplankton, FB 81:855
Bioprofiles
occanic pelagic fishes
sampling manual, TM SEFC-103, SEFC-55
Biscayne Bay, Florida
interrelation of water quality, gill parasites, and gill pathology of some fishes, FB 80:269
Bivalves
ageing, MFR 46(2):27
collection of east coast mollusks, S 768
deep-burrowing infaunal
flushing-coring device for collecting in intertidal sand, FB 79:383
gross and histological techniques, TM F/NEC-25
life history, distribution, and abundance in New York Bight, S 766
Macoma spp., FB 81:504
Mya truncata, FB 81:504
Serripes groenlandicus, FB 81:504
Black Sands mining trawl survey 1981-82, MFR 47(3):23
Blacksmith
abundance, FB 82:199, 201
diel migration, FB 82:202
distribution patterns, FB 78:837
feeding habits, FB 82:200
foraging at reef, FB 78:838
foraging experiments, FB 78:831, 835
physical measurements, FB 78:832
plankton sampling, FB 78:831
prey, FB 82:201
response to thermal effluents, FB 82:201
study site, FB 78:830
surveys, FB 78:830
zooplankton distribution patterns, FB 78:839
Block Island Sound
barge *Ocean 250* gasoline spill, S 751
Bloodworms
Maine coast
Glycera dibranchiata commercial sampling program, S 767
Bluefish
distribution of larvae, MFR 45(10-12):19
food preferences
gill net selectivity, TM SEFC-119
landings, North Carolina charterboat fishery, MFR 45(1):16
Bluegill
mortality from 13p2 virus, MFR 46(3):15
Bocaccio, FB 82:70
bottom trawl survey
off Washington-California, 1980, TM F/NWC-48
maturation and fecundity, MFR 42(3-4):74

Bocaccio (continued)
seasonal changes in fat and gonad volume, FB 83:299
size, age composition, and growth, MFR 42(3-4):48
Bolinas Lagoon, California, FB 82:493
Bonefish
Bahamian waters, FB 81:148
movement patterns, FB 81:148
ultrasonic equipment, FB 81:148
Bongo plankton nets, FB 81:405
Bonito, Atlantic
landings, Florida charterboat fishery, MFR 45(1):16
Bonito, Pacific
California, southern and central
sea-surface temperature effects on sport fishing, S 759
optimum sea surface catch temperatures, MFR 45(4-6): 31
von Bertalanffy growth equation, FB 81:93
Bonitos
bionomics and life history, C 442
exploration, C 442
identification, C 442
population, C 442
protection and management, C 442
Bonnethead
swimming kinematics, FB:803
Bothriocephalus scorpii
larval stages of, TR 25
Bottomfish—see also Groundfish
ecological interactions between shrimp, TM SEFC-63
resources Gulf of Alaska, TM F/NWC-10
Botulism
Clostridium botulinum outbreaks, MFR 45(2):1
Clostridium botulinum type E
D values, MFR 45(2):5, 6
distribution in nature, MFR 45(2):1, 2
in fish-related botulism, MFR 45(2):1
phantom TDT curves, MFR 45(2):5
quantitative incidence, MFR 45(2):2
survivor curves, MFR 45(2):4
z value, MFR 45(2):4, 5
Clostridium perfringens
in decomposed skipjack tuna, MFR 45(4-6):40
isolated from frozen tuna, MFR 45(4-6):35
Clostridium sporogenes
commercial canning heat process standards, MFR 45(2):3
Box-Jenkins models
forecasting fishery dynamics, FB 78:887
Boxfish, spiny
warm water period observations, California, MFR 45(4-6) 27
Boxfishes
osteology, phylogeny, and higher classification of fishes of order Plectognathi (Tetraodontiformes), C 434
Brevoortia gunteri—see Menhaden, finescale
Brevoortia patronis—see Menhaden, gulf
Brevoortia smithi—see Menhaden, yellowfin
Brevoortia spp.—see Menhaden
Brevoortia tyrannus—see Menhaden, Atlantic
British Columbia
salmon, chum
population biology, Fraser River, FB:813
Brosme brosme—see Cusk
Bryan Mound, brine disposal site, 1979-81
redfish studies
brine avoidance/attraction bioassays, TM SEFC-69
brine toxicity bioassays, TM SEFC-69
shrimp studies
bioassays, TM SEFC-70
catch effort analysis, TM SEFC-65
interview sampling survey of catch effort, TM SEFC-68
mark-release investigations, TM SEFC-66
shrimping success, TM SEFC-65
spawning site survey, TM SEFC-67
Bryozoa
as oyster spat fouling organisms, MFR 45(3):5
Buccaneer gas and oil fields
environmental assessments, 1976-80
reports to Environmental Protection Agency (EPA), TM SEFC-47 - 52
environmental assessments, 1978-79, TM SEFC-35 - 44
impact assessments
bibliographies, TM SEFC-147
Bulk biomass model
fish food habits data base, MFR 47(1):9
Bull rake—see Clam rake
Bullhead
helminths on tissue lipids, TR 25
pelagic resources, 1963-78, S 762
Butterfish
Pacific
seasonal spawning cycle, FB 78:977
seamount fishery research, central North Pacific, MFR 46(2):11

C

Cadmium
dietary intake from seafood
using a computer simulation model, TM SEFC-74
tissue distribution
in mice dosed with partially purified extracts of oyster, TM SEFC-143
Calamus leucosteus—see Porgy, whitebone
Calamus—see Fish, reef
Calappa spp.—see Crab, box
CalCOFI—see also Large Marine Ecosystems (LME)
oceanographic data file, TM SWFC-24
California
albacore fishing
relationship to sea surface temperature isotherms, TM SWFC-11
bottom trawl survey
bocaccio, 1980, TM F/NWC-48
canary rockfish, 1980, TM F/NWC-48
chilipepper, 1980, TM F/NWC-48
yellowtail rockfish, 1980, TM F/NWC-48
Dungeness crab resources
economic status, 1982-83, TM F/SWR-006
economic status, 1983-84, TM F/SWR-008
food of Pacific white-sided dolphin, Dall's porpoise, and northern fur seal, off, FB 78:951
foreign fisheries, off, 1977-78, MFR 43(5):36
foreign fishing operations, TM F/NWR-15
groundfish
economic status, 1983, TM F/SWR-004

California (continued)
groundfish (continued)
economic status, 1984, TM F/SWR-010
joint fishing operations, TM F/NWR-15
nearshore sea surface temperatures
1980-83, TM SWFC-43
El Nino, 1982-83, TM SWFC-43
northern anchovy fishery management
biological and economic basis, TM SWFC-1
pink shrimp resources
economic status, 1983, TM F/SWR-007
economic status, 1984, TM F/SWR-009
rockfish
distribution and abundance, 1977, MFR 42(3-4):2
rockfish, shortbelly, MFR 42(3-4):34
rockfish, yellowtail
length and age composition, 1977, MFR 42(3-4):54
sablefish
abundance and size composition, 1980-81, TM F/NWC-26
abundance and size composition, 1980-82, TM F/NWC-51
tagging studies, 1979-83, TM F/NWC-69
salmon
economic status, 1983, TM F/SWR-005
sampling commercial landings
rockfish, 1984, TM SWFC-45
sea otters
annual reproduction, dependency period, and apparent gestation period, FB 79:347
whiting, Pacific
foreign fleet catches, 1977-80, TM F/NWC-11
foreign fleet trawl positions, 1977-80, TM F/NWC-11
California, central
rockfish, olive
growth, reproduction, and food habits, FB 79:533
sea lion, California
population fluctuations and Pacific whiting fishery, FB 80:253
California, southern
croaker, white
development of eggs and larvae off coast, FB 80:403
fishes
crepuscular and nocturnal activities, FB 79:1
Newport Bay
seasonal abundance, composition, and productivity of littoral fish assemblage, FB 80:769
reefs, artificial
resource management option for siting coastal power stations, MFR 44(6-7):24
salmon, coho
phenotypic differences among hatchery and wild stocks, FB 80:105
shark, white
predation on pinnipeds in coastal waters, FB 80:891
vertical stratification of nearshore larval fishes
anchovy, northern, FB 80:895
croaker, white, FB 80:895
queenfish, FB 80:895
California Bight, southern
anchovy, northern
feeding selectivity of schools, FB 79:131
percentage of starving larvae, FB 78:475
California Channel Islands
seal, northern elephant
population growth and censuses, 1958-78, FB 79:562
California Cooperative Oceanic Fish Investigation (CalCOFI), FB 82:97
California Department of Fish and Game
crab, Dungeness, nursery studies, MFR 47(3):21
California fishery, FB 82:37, 196, 530
rockfish, FB 82:249
California sea lions—see Sea lions, California
California-British Columbia
whiting, Pacific
distribution, abundance, and biological characteristics, July-September 1977, MFR 42(3-4):17
Caligus parasites, FB 81:246
Callinectes
larvae in Middle Atlantic Bight, 1975-77
cooccurring decapods, FB 78:259
distribution, FB 78:255
identification, FB 78:254
Callinectes bocourti—see Crab, tropical swimming
Callinectes sapidus Rathburn—see Crab, blue
Callorhinus ursinus—see Seal, northern fur
Canada
MARMAP survey, 1977-83, TM F/NEC-33
northern fur seal eastern Pacific pelagic data and collection procedures, TM F/NWC-4
salmon, anadromous
releases from rearing facilities, 1960-76, TM F/NWC-6
trout, anadromous
releases from rearing facilities, 1960-76, TM F/NWC-6
Canadian fishery, FB 82:121
Canadian Formula
ice requirements for chilled seawater systems, MFR 47(4):33
Canaveral Channel, Florida
loggerhead sea turtle
movement and behavior patterns, TM SEFC-112
Cancer borealis—see Crab, Jonah
Cancer irroratus—see Crab, rock
Cancer magister—see Crab, Dungeness
Canned foods, commercial
botulism protection, MFR 45(2):2
process time determination, MFR 45(2):4
thermal death time (TDT) curve, MFR 45(2):2
Cape Fear River, North Carolina
fishes, postlarval in tidal estuary, FB 78:419
Cape Hatteras, North Carolina
croaker, Atlantic
maturity, spawning, and fecundity, north of, FB 78:190
MARMAP survey, 1977-83, TM F/NEC-33
Cape Lisburne, Alaska
migration of bowhead whales, MFR 42(9-10):46
Cape Sable, Nova Scotia
MARMAP survey, 1977-83, F/NEC-33
Capitellida
life history, distribution, and abundance in New York Bight, S 766
Capline Sector
Louisiana salt dome brine biochemical surveys, 1978-79, TM SEFC-25 to SEFC-33
Caprodon schlegelii—see Grouper

Capsalid fauna
parasitology and pathology of marine organisms of the world ocean, TR 25
Carangidae
ichthyoplankton larval distribution and abundance
Gulf of Mexico, 1982, TM SEFC-144
seamount fishery research, central North Pacific, MFR 46(2): 11
Caranx caballus—see Jack, green
Caranx hippos—see Jack, crevalle
Caranx ignobilis—see Ulua, white
Carcharhinidae—see Sharks
Carcharhinus
revision of genus, TR 34
Carcharhinus falciformis—see Shark, silky, TR 31
Carcharhinus hemiodon—see also Sharks
biological data, TR 34
Carcharhinus isodon—see Shark, finetooth; see also Sharks
Carcharhinus leidon—see Sharks
Carcharhinus leucas—see Shark, bull
Carcharhinus longimanus—see Shark, ocean whitetip, TR 31
Carcharhinus macloti—see also Sharks
biological data, TR 34
Carcharhinus melanopterus—see Shark, Pacific blacktip
Carcharhinus milberti—see Shark, sandbar
Carcharhinus obscurus—see Shark, dusky
Carcharhinus plumbeus—see Shark, sandbar
Carcharhinus signatus—see also Sharks
biological data, TR 34
Carcharhinus spp.—see Sharks
Carcharodon carcharias—see Shark, white
Caretta caretta—see Turtle, loggerhead
Caribbean Sea
chaetognatha, TR 15
classification, TR 15
fishes taken in longlining, C 435
fish larvae, S 776
key to species, TR 15
molluscan mariculture, MFR 47(4):1
Caroline Islands, Western
Helen Reef, Palau
tridacnid clam stocks, MFR 42(2):8
Casco Bay, Maine
environmental benchmark studies, TM F/NEC-19
Catch and effort data
analysis
Pacific herring, 1959-81, TM F/NWC-24
charterboat fishery
southeastern U.S., 1982, TM SEFC-129
southeastern U.S., 1983, TM SEFC-139
southeastern U.S., 1984, TM SEFC-157
FRS *Oregon* II cruise 85
west Florida shelf, 1978, TM SEFC-130
historical
Georges Bank, 1904-1982, TM F/NWC-24
Catch estimation—see also Tagging
bass fishery, FB 81:168
commercial fisheries, FB 81:723
crab, blue king, FB 81:621
fish, demersal, FB 81:537
fish, reef, FB 81:679
fishery management, FB 81:723
Catch estimation (continued)
Japanese longline
comparison of 1979 and 1980 for Atlantic and Gulf of Mexico, TM SEFC-125
mackerel, king, FB 81:711
quahog, ocean, FB 82:269
salmon, coho, FB 81:412
shrimp, deepwater pandalid, FB 81:434
shrimp, freshwater, FB 81:658
splittail, FB 81:650
trawl positions
California, Oregon, and Washington, 1977-80, TM F/NWC-11
tuna baitboats
central and western Pacific, 1965-77, TM SWFC-2
tuna, bluefin, FB 81:107
tuna longliners
central and western Pacific, 1965-77, TM SWFC-2
tuna, southern bluefin, FB 81:726
whiting, Pacific
California, Oregon, and Washington, 1977-80, TM F/NWC-11
Catfish
United States
aquaculture, C 447
Catshark
life history notes, FB 83:695
Caulolatilus microps—see Tilefish, blueline
Census
sea lions, northern
central Aleutian Islands, 1979, TM F/NWC-17
whales, bowhead
instructions and techniques, TM F/NWC-45
Centropristis—see Fish, reef
Cephalopod fishery
management model for northwest Africa
conceptual model, MFR 43(11):2
evaluation of alternative management policies, MFR 43(11):6
model validation, MFR 43(11):5
robustness of model predictions, MFR 43(11):7
sensitivity analysis, MFR 43(11):6
simulation model, MFR 43(11):2 statistical comparisons of alternative management policies, MFR 43(11):8
Cephalopods
catalog of specimens at the National Marine Mammal Laboratory, TM F/NWC-65
identification, TR 17
Pacific, eastern tropical
beak key with relationships between beak dimensions and size, FB 80:357
techniques for assessing roles, TM SWFC-39
Cero
biology, FB 82:659
catches in Spanish mackerel gill net fishery, TM SEFC-138
species type, FB 82:657
Cetaceans
food requirements in northeast U.S., MFR 47(1):15
role in ecosystem, MFR 47(1):13
status of endangered species, MFR 46(4):2
stock size and energy requirements , northeastern U.S., TM F/NEC-41
tagging techniques for small cetaceans
freeze brands, FB 80:137, 140
natural marks, FB 80:139, 140

Cetaceans (continued)
tagging techniques (continued)
radio tags, FB 80:136, 139
Roto tags, FB 80:140
spaghetti tags, FB 80:139, 140
visual tags, FB 80:136, 140
test methods
estimating range and bearing, TM SWFC-20
Chaetognatha
Caribbean Sea
classification, TR 15
key to species, TR 15
Char, Arctic
feeding on salmon smolts, FB 82:401
predator-prey interaction, FB 82:401
Charleston Harbor
South Carolina
seasonal distribution and abundance of fishes and decapod crustaceans, S 782
Charterboat fishery, Texas
catch rates, Texas bays, MFR 45(1):16
fish landing surveys, Texas and Gulf of Mexico, MFR 45(1):13
landings since 1975, MFR 45(1):11
species harvested, MFR 45(1):15
Charterboat industry
boats, Texas
classification, MFR 45(1):12
harvest calculations, MFR 45(1):13
headboat surveys, MFR 45(1):12
management strategy, MFR 45(1):14
party boat surveys, MFR 45(1):12
recreational fish catch, 1979, MFR 45(1):13
business turnover, Texas, 1975-80, MFR 47(1):43
catch and effort from southeastern U.S. waters
biological information, MFR 47(3):54
charterboat characteristics, MFR 47(3):54
geographical and seasonal availability, MFR 47(3):54
species catch data, MFR 47(3):54
trolling, MFR 47(3):54
catch and effort survey
southeastern U.S., 1982, TM SEFC-129
southeastern U.S., 1983, TM SEFC-139
southeastern U.S., 1984, TM SEFC-157
catch records
catch and effort data, MFR 46(3):48
catch per boat hour (CBH), MFR 46(3):53
effort distribution, MFR 46(3):52
fishing method, MFR 46(3):49
fishing zones, definition, MFR 46(3):48
species caught, MFR 46(3):50
landings, North Carolina
biological data on pelagic fish samples, TM SEFC-7
Texas, MFR 45(1):11
Cheilotrema saturnum—see Croaker, black
Chelonia mydas—see Turtle, green; Turtle, green sea
Chemical composition
crustaceans, TM SEFC-11
finfish, FB 81:389, TM SEFC-11
menhaden, Atlantic, FB 81:139, 181
mollusks, TM SEFC-11
sole, yellowfin, FB 81:669
whales, TM SEFC-11
Chesapeake Bay
fishery, FB 82:455
polychlorinated biphenyls
fish, in, MFR 42(2):21
shellfish, in, MFR 42(2):21
Squilla empusa
larval ecology, FB 78:693
Chilean subtropical rainfall
long-term, FB 81:369
Chilipepper
trawl survey
off Washington-California, 1980, TM F/NWC-48
maturation and fecundity, MFR 42(3-4):74
fat and gonad volume, FB 83:299
age composition and growth, MFR 42(3-4):48
Chilled seawater (CSW) systems
engineering and economics for semi-tropical waters, TM SEFC-102
ice requirements for preservation, MFR 47(4):33
Chincoteague Bay, Virginia
shark, sandbar
feeding behavior and biology, FB 79:441
Chionoecetes bairdi—see Crab, snow
Chionoecetes opilio—see Crab, snow
Chromis punctipinnis—see Blacksmith
Chthamalus fragilis—see Barnacle
Chukchi Sea, Alaska
assessments
living marine resources, TM F/AKR-3
bowhead and white whale migration, distribution, and abundance, S 778
whale, bowhead
historical shore-based catch, MFR 42(9-10):5
vessel surveys, June-July 1978, MFR 42(9-10):51
Chukchi Sea, northeastern
demersal fishes and invertebrates trawled, S 764
Chum salmon virus (CSV)
accumulation in mollusk tissues, MFR 46(3):15
Ciguatera
fish poisoning, eastern Caribbean
fish involved, MFR 46(1):16
frequency/incidence, MFR 46(1):13
hazardous (high risk) species, MFR 46(1):17
toxic areas, MFR 46(1):15
survey at Enewetak and Bikini, Marshall Islands
Acanthuridae, FB 78:240
Balistidae, FB 78:243
Carcharhinidae, FB 78:206
Crangidae, FB 78:233
Dasyatidae, FB 78:211
Holocentridae, FB 78:213
Kyphisodiae, FB 78:232
Labridae, FB 78:237
Lethrinidae, FB 78:228
Lutjanidae, FB 78:223
Mugilidae, FB 78:215
Muraenidae, FB 78:212
Orectolobidae, FB 78:205
Scaridae, FB 78:238
Scombridae, FB 78:235
Serranidae, FB 78:216
Sphyraenidae, FB 78:214

Cirolana borealis
occurrence in shark hearts, Atlantic coastal waters of Florida
histopathology of shark heart, FB 79:379
isopods in shark samples, FB 79:379
sampling, FB 79:378
shark pathology, FB 79:379
water parameters, FB 79:378
Cirratulida
life history, distribution, and abundance in New York Bight Apex, S 766
Citharichthys arctifrons—see Flounder, gulfstream
Citharichthys cornutus
larval development and occurrence
cephalic spination, FB 80:47
characters, distinguishing, FB 80:39
counts, FB 80:37
developmental terminology, FB 80:37
fin and axial skeleton formation, FB 80:44
identification, FB 80:38, 39
morphometrics, FB 80:37, 41
occurrence, FB 80:47
pigmentation, FB 80:40
specimens, FB 80:36
teeth, FB 80:47
transformation, FB 80:47
Citharichthys gymnorhinus
larval development and occurrence
cephalic spination, FB 80:56
characters, distinguishing, FB 80:51
counts, FB 80:37
developmental terminology, FB 80:37
fin and axial skeleton formation, FB 80:54
identification, FB 80:38, 51
morphometrics, FB 80:37, 54
occurrence, FB 80:56
pigmentation, FB 80:51
specimens, FB 80:36
teeth, FB 80:56
transformation, FB 80:56
Citharichthys spilopterus
larval development and occurence
cephalic spination, FB 80:62
characters, distinguishing, FB 80:57
counts, FB 80:37
developmental terminology, FB 80:37
fin and axial skeleton formation, FB 80:61
identification, FB 80:38, 57
morphometrics, FB 80:37, 59
occurrence, FB 80:62
pigmentation, FB 80:57
specimens, FB 80:36
teeth, FB 80:62
transformation, FB 80:62
Citharichthys stigmaeus—see Sanddab, speckled
Citharichthys xanthostigma—see Sanddab, longfin
Citrobacter freundii
isolated from tuna gills, MFR 45(4-6):37
Clam
growth rates, FB 82:537
Clam, Atlantic surf
fishery, 1965-74
areas fished, MFR 44(8):6
Clam, Atlantic surf (continued)
fishery, 1965-74 (continued)
fleet operations, MFR 44(8):7
interview records, MFR 44(8):6
Long Island, MFR 44(8):8
New England region, MFR 44(8):11
New Jersey, MFR 44(8):9
Ocean City, Maryland, MFR 44(8):9
ports, number of vessels, and landings, MFR 44(8):4
resource and fishery, MFR 44(8):2
vessels and gear, MFR 44(8):3
Virginia, MFR 44(8):10
worldwide and United States, MFR 44(8):11
Clam, hard
acetate peels, FB 81:698, 699, 701, 706
aging marks, MFR 46(2):33
aging methodology, FB 81:766
annotated bibliography, S 756
annual shell increments, FB 81:699, 700
Chesapeake Bay, FB 81:697
dark bands, FB 81:699, 706
depuration of human polio virus, MFR 46(3):15
effects of large predators on field culture, FB 78:538
field population, FB 81:768, 774, 776
gastroenteritis outbreak
New York, May-September, 1982, TM SEFC-121
growth band deposition, FB 83:671
growth rates, FB 81:706
light bands, FB 81:699, 706
mariculture, South Carolina
direct production costs, MFR 45(4-6):12
nursery capacity, MFR 45(4-6):15
operational lessons, MFR 45(4-6):14
raceway type, MFR 45(4-6):14
seed clams, MFR 45(4-6):10
microgrowth increment, FB 81:701
rakes, FB 81:429
shell microstructure, FB 81:699
southeastern United States, FB 81:765
Clam, rake, FB 81:429
Clam, soft-shell
environmental parameters, FB 81:79
Gallucci and Quinn parameter, FB 81:75, 78
growth rate, FB 81:75, 78
Maryland to Nova Scotia, FB 81:75
spawning cycle in San Francisco Bay, FB 83:403
Clam, surf, FB 82:387
annual microstructure deposits and use in ocean quahog ageing, MFR 46(2):27
Clam, tridacnid
stocks on Helen Reef, Palau, Western Caroline Islands
natural history, MFR 42(2):9
survey methods, MFR 42(2):12
Clam dredge, hydraulic
performance and environmental effects
clam behavior, MFR 43(9):20
clam mortality, MFR 43(9):19
clam predators, MFR 43(9):21
dredge efficiency, MFR 43(9):18
dredge performance, MFR 43(9):17
dredge track, adjacent areas, and wind rows, MFR 43(9):15
performance and efficiency, MFR 43(9):14

Clam dredge, hydraulic (continued)
performance and environmental effects (continued)
sample treatment, MFR 43(9):16
track configuration and breakdown, MFR 43(9):19
Clam surveys
design of electrohydraulic dredge, MFR 44(4):1
Clam-kicking fishery
North Carolina
anchor method, MFR 44(1):16
bedstead method, MFR 44(1):17
clam trawl, MFR 44(1):19
oyster drag method, MFR 44(1):18
Climatology
bass, striped, FB 81:420
California Current Region
atmosphere-ocean surface heat fluxes, S 763
Closed corridor
biological implications
Atlantic menhaden fishery, SEFC-165
Clostridium botulinum—see Botulism
Clostridium perfringens—see Botulism
Clostridium sporogenes—see Botulism
Clupea harengus harengus—see Herring, Atlantic; see Herring
Clupea harengus pallasi—see Herring, Pacific
Clupea sprattus—see Sprat
Clupeid fishes
Pacific, Indo-West
bomolochid copepods parasitic on eyes, FB 78:715
Clupeidae
ichthyoplankton larval distribution and abundance
Gulf of Mexico, 1982, TM SEFC-144
Coastal zone
color scanner workshop proceedings, TM SEFC-9
Cobble-bottom habitats, FB 82:37
Cobia
landings, Texas charterboat fishery, MFR 45(1):11
Cochito
food habits, S 740
Cod
Georges Bank
larvae fish growth and survival in relation to trophodynamics, TM F/NEC-36
Cod, Arcto-Norwegian
distribution, FB 82:143, 148
feeding area, FB 82:141, 143, 149, 152
larvae, FB 82:141
Cod, Atlantic
asteriscus, FB 81:830
Cape Hatteras to western Nova Scotia, FB 81:438
catch, FB 81:304, 305, 309, 315
daily food consumption, FB 81:437
diet overlap between, and other northwest Atlantic finfish
butterfish, FB 80:749
flounder, fourspot, FB 80:751
flounder, witch, FB 80:751
flounder, yellowtail, FB 80:751
haddock, FB 80:751
hake, red, FB 80:749
hake, spotted, FB 80:749
hake, silver, FB 80:754
hake, white, FB 80:749
plaice, American, FB 80:751
Cod, Atlantic (continued)
diet overlap (continued)
pollock, FB 80:749
pout, ocean, FB 80:751
redfish, FB 80:747
sculpin, longhorn, FB 80:747
scup, FB 80:749
skate, little, FB 80:746
domestic utilization, MFR 45(7-9):21
food of juveniles, FB 79:202
Georges Bank, FB 81:827
groundfish processing in Massachusetts, 1970s, MFR 45(1):1
growth increments, FB 81:829
Gulf of Maine
trophic relationships, FB 79:775
landings, MFR 45(1):5
lapillus, FB 81:830
larval growth, FB 81:830
mean size and age, FB 81:316
medium length and age at maturity, FB 81:317
minced fish flesh
nutritive value, MFR 45(7-9):34
percent composition, MFR 45(7-9):34
sensory attributes, MFR 45(7-9):34
otoliths, FB 81:828
recovery trends, MFR 45(10-12):18
recruitment studies, MFR 45(10-12):4
Scotian Shelf, FB 81:303
shelf life extension using potassium sorbate, MFR 47(3): 26
used in mixed mince-fillet fish blocks, MFR 46(3):76
viscosity as quality control for frozen fish, MFR 47(3):52
Cod, Pacific
Alaska, southeastern
summer food, FB 78:968
diet and predation in Pavlof Bay, Alaska, FB 83:601
early life history studies, MFR 45(10-12):12
east Bering Sea
abundance of, 1982, TM F/NWC-25
projected abundance, 1982-86, TM F/NWC-25
Japanese fishery, Gulf of Alaska
longline catches, 1978-83, TM F/NWC-82
larval development in northeast Pacific Ocean
compared with Pacific tomcod, FB 78:923
Cod, saffron
Alaska, western
resource assessment and potential, TM F/NWC-79
Cod, scrod—see Cod, Atlantic
Coded wire tags (CWT)
internal magnetic, MFR 46(3):68
Coelenterata
life history, distribution, and abundance in New York Bight Apex, S 766
Coelorhynchus carminatus—see Grenadier, longnose
Cohort analysis
herring, Pacific, 1959-81, TM F/NWC-24
Cold Pool
temperature conditions, 1977-81, TR 24
Collagen
content in tuna, MFR 46(2):40
Columbia River
fishery, FB 82:411

Columbia River (continued)
fisheries development program
annual report, 1980, TM F/NWR-1
annual report, 1981, TM F/NWR-4
annual report, 1982, TM F/NWR-6
annual report, 1983, TM F/NWR-9
annual report, 1984, TM F/NWR-13
Hanford, Washington
snout dimorphism in white sturgeon, FB 80:158
irrigation
screening diversions, F/NWR-12
John Day Reservoir
walleye, growth characteristics of young-of-the-year, 1979, FB 79:567
salmon
economic values, TM F/NWR-3
homing experiments, broods from 1939-44, TM F/NWC-12
radio tracking studies at hydroelectric dams, 1971-77, TM F/NWC-81
tracking studies at hydroelectric dams, TM F/NWC-81
transplantation experiments, broods from 1939-44, TM F/NWC-12
salmon, juvenile
coho migrations, 1966-71, TM F/NWC-84
marked fish recoveries from the estuary and ocean plume, 1977-83, TM F/NWC-75
migrations, TM F/NWC-56
sampling and catch data, 1977-83, TM F/NWC-74
salmon migration, FB 82:157
salmonid fishery
stock identification methods for fishery management, MFR 47(1):85
transport operations
annual report, 1981, TM F/NWR-2
annual report, 1982, TM F/NWR-5
annual report, 1983, TM F/NWR-7
annual report, 1984, TM F/NWR-11
fiscal year 1984, TM F/NWR-14
transportation of smolts
salmon, chinook, FB 78:491
steelhead, FB 78:491
trout, steelhead
economic values, TM F/NWR-3
radio tracking studies at hydroelectric dams, 1971-77, TM F/NWC-81
Wind River drainage
salmon, chinook, establishment of nonindigenous runs, 1955-63, FB 79:507
Columbia River, mid-
sturgeon, white
diel and seasonal movements, FB 79:367
Columbia River Basin
salmon, spring chinook
areal distribution of marked, recovered in fisheries and at parent hatcheries, MFR 43(12):1
Columbia River estuary
crab, Dungeness, nursery habitat studies, MFR 47(3):21
Columbia River Estuary Data Development Program, MFR 47(3):21
Combfish
Pacific Ocean, northeastern
development, TR 2
Commercial passenger fishing vessel industry
recreational albacore fishery, MFR 47(3):48
Commission for the Conservation of Antarctic Marine Living Resources
ecosystem management applications, MFR 45(10-12):23
Community, fouling
Buccaneer gas and oil field
environmental assessment, TM SEFC-39
Community structure
fisheries
demersal fish, eastern Bering Sea, 1978-81, TM F/NWC-35
demersal fish, eastern Bering Sea, 1971-77, TM F/NWC-40
invertebrates
eastern Bering Sea, 1978-81, TM F/NWC-35
eastern Bering Sea, 1971-77, TM F/NWC-40
macrobenthos
Gulf of Maine, TM F/NEC-14
phytoplankton
east coast, TM F/NEC-8, TM F/NEC-9
Computer
simulation model
estimate of dietary intake of cadmium from seafood, TM SEFC-74
Computer
graphics anthology of programs, TM SEFC-151
geographic mapping systems for computer programs, TM SEFC-153
Computer program documentation
EDMAP 2
environmental data mapping, SWFC-18
Computer programs
population projections
using time varying vital rates, TM SWFC-28
Computer programs, net tapering—see Trawlnet section taper
Conch
Atlantic Bight, middle
food habits and trophic relationships of fishes, S 773
Conch, queen
biology, fisheries, and management
Antigua, MFR 43(7):7
Bahamas, MFR 43(7):7
Barbados, MFR 43(7):7
Barbuda, MFR 43(7):7
Belize, MFR 43(7):8
Caicos, MFR 43(7):9
Cuba, MFR 43(7):8
Dominica, MFR 43(7):8
Dominican Republic, MFR 43(7):8
fishing methods, MFR 43(7):5
Florida, MFR 43(7):9
food, MFR 43(7):2
growth, MFR 43(7):3
habitat, MFR 43(7):2
Haiti, MFR 43(7):8
mariculture, MFR 43(7):10
movements and migrations, MFR 43(7):4
Panama, MFR 43(7):8
predation, MFR 43(7):5
processing and marketing, MFR 43(7):6
reproduction, MFR 43(7):2
research, current and proposed, MFR 43(7):10
resource status, MFR 43(7):6

Conch, queen (continued)
biology, fisheries, and management (continued)
St. Lucia, MFR 43(7):8
St. Vincent, MFR 43(7):9
Tobago, MFR 43(7):9
Trinidad, MFR 43(7):9
Turks, MFR 43(7):9
Venezuela, MFR 43(7):9
Conservation technology
economic analysis
fishing industry energy use, TM F/NWC-39
Consumer expenditure patterns
fish, MFR 44(3):1
shellfish, MFR 44(3):1
Consumption by guano
birds, FB 81:369
Contaminants
effects on benthos
Long Island Sound and New York Bight, TM F/NEC-16
in demersal species
Long Island Sound and New York Bight, TM F/NEC-16
in finfish, FB 81:389
in grunion, California, FB 81:473
in sediments
Long Island Sound and New York Bight, TM F/NEC-16
Continental shelf
demersal fishes
bottom trawl surveys, FB 82:295
faunal affinities, FB 82:297
species associations, FB 82:304
east coast
cetacean stock size estimates, TM F/NEC-41
Georges Bank, TM F/NEC-38
MARMAP survey, 1977-83, TM F/NEC-33
Nantucket Shoals, TM F/NEC-38
eastern Bering Sea
bottom trawl survey, 1983, TM F/NWC-94
U.S.-Japan bottom trawl survey, 1981, TM F/NWC-88
west coast
demersal trawl survey, eastern Bering Sea, 1979, TM F/NWC-30
demersal trawl survey, eastern Bering Sea, 1980, TM F/NWC-49
Conversions
tail size
shrimp, brown, TM SEFC-20
shrimp, pink, TM SEFC-20
shrimp, white, TM SEFC-20
Cook Inlet, Alaska
assessments
living marine resources, TM F/AKR-5
Cookeolus boops—see Bigeye, red
Cooper River, S.C.
distribution and abundance of fishes and crustaceans, S 782
Copepod parasites, FB 81:260
Copepods, FB 81:227; FB 82:55
Copepods, bomolochid
parasitic on eyes of Indo-West Pacific clupeid fishes
Pseudorbitacolax fimbriatus, FB 78:716
Pseudorbitacolax nudus, FB 78:724
Pseudorbitacolax Pillai 1971, FB 78:715
Pseudorbitacolax varunae (Bennet 1966), FB 78:720
Copepods, bomolochid (continued)
parasitic on eyes (continued)
Pumiliopes jonesi (Bennet 1967), FB 78:729
Pumiliopes opisthopteri Shen 1957, FB 78:729
Pumiliopes Shen 1957, FB 78:729
Pumiliopes squamosus Cressey and Boyle 1973, FB 78:730
Pumiliopsis Pillai 1967, FB 78:724
Pumiliopsis plautus Cressey and Boyle 1973, FB 78:726
Pumiliopsis sardinellae (Bennet 1964), FB 78:726
Copepods, marine
Acartia tonsa, FB 81:155
Calanus pacificus, FB 81:155
diatom, FB 81:156
dinoflagellates, FB 81:156
food selection, FB 81:154
Santa Monica Bay, California, FB 81:154
Copper
effects of on early life history stages of northern anchovy, FB 78:675
Corals, stoney
Scleractinia coral of the U.S., N.E., C 438
annotated systematic list, C 442
bathymetric range, C 442
dichotomous key, C 442
general biology, C 442
geographic range, C 442
morphology, C 442
tabular key, C 442
Corps of Engineers, U.S. Army
transportation of migrating salmon and steelhead trout, Columbia and Snake Rivers, MFR 45(2):9
Corral system
examining pelagic dolphin schools, MFR 43(11):16
Coryneforms
in freshly caught marine fish, MFR 45(4-6):35
Coryphaena equiselis Linnaeus—see also Dolphin-fishes
development and structure of fins and fin supports, FB 78:277
Coryphaena hippurus Linnaeus—see also Dolphin-fishes
development and structure of fins and fin supports, FB 78:277
Coryphaenidae
ichthyoplankton larval distribution and abundance
Gulf of Mexico, 1982, TM SEFC-144
Coryphaenoides rupestris Gunner—see Grenadier, rock
Costa Rica
Pacific thread herring fishery
maximum yield estimates, FB 79:689
Cottidae—see also Sculpin
ichthyoplankton off Alaska, TR 20
Cottids
Bering Sea
fish resources, S 754
Cottus asper—see Sculpin, prickly
CPUE, FB 81:52
Crab—see also *Cyclograpsus integer*
Crab, blue
biological data, TR 20
biomes and life history, TR 20
comparative study of autochthonous bacterial flora on gills and environment, FB 80:884
distribution, TR 20
exploration, TR 20
handling, MFR 45(7-9):38

Crab, blue (continued)
identification, TR 20
marsh habitat, FB 82:455
meat yield, MFR 45(7-9):42
microbiological properties, MFR 45(7-9):38
population, TR 20
predators on oyster spat and small seed, MFR 45(3):15
processing technologies
bacteriological profiles, MFR 45(7-9):40
debacked, eviscerated, boiled, MFR 45(7-9):39
energy savings, MFR 45(7-9):43
heat penetration, MFR 45(7-9):39
moisture content, MFR 45(7-9):42
whole-boiled, MFR 45(7-9):39
whole-boiled, debacked, washed, MFR 45(7-9):39
production, MFR 45(7-9):38
sampling devices for juvenile, comparison, FB 78:196
shell shedding operations, TR 20
Crab, blue king
Alaska, FB 81:621
female size, FB 81:621
male size, FB 81:622
materials and methods of collection, FB 81:621
Crab, box
seamount fishery research, central North Pacific, MFR 46(2): 13
Crab, deep-sea king
life history, in Gulf of Alaska
adaptations for life on the upper slope, FB 79:265
depth distribution, FB 79:261
egg size, FB 79:265
fecundity, FB 79:263
female reproductive condition, FB 79:262
parasites, FB 79:265
sex ratio, FB 79:261
size distribution, FB 79:261
size of maturity, FB 79:263
Crab, deep-sea red
growth, FB 81:903
juveniles, FB 81:903
laboratory-reared, FB 81:903
western Atlantic Ocean, FB 81:903
Crab, Dungeness
California
economic status, 1982-83, TM F/SWR-006
economic status, 1983-84, TM F/SWR-008
Columbia River estuary
causes of injury, MFR 46(1):24
composition by sex, MFR 46(1):22
leg loss, MFR 46(1):22
regeneration, MFR 46(1):22
cyclic covariation in California fisheries
California, central, total catch, FB 80:795
California, northern
catch by salmon species, FB 80:794
total catch, FB 80:793
switching effort between species, FB 80:796
Grays Harbor
abundance, FB 82:471, 479
age, FB 82:474
distribution, FB 82:473, 478
growth, FB 82:477, 481
Crab, Dungeness (continued)
impairment of chemosensory antennular flicking response by petroleum hydrocarbons
animal collection and maintenance, FB 79:641
apparatus, experimental, FB 79:642
hydrocarbon concentrations, FB 79:643
impairment and recovery of chemosensory detection, FB 79:643
procedures, FB 79:642
solutions, experimental, FB 79:642
statistical analysis, FB 79:643
mass mortality of female on southern Washington coast, FB 79:349
North America, west coast
correlation between annual catches and mean annual sunspot number, FB 79:794
nursery habitat in Columbia River estuary, MFR 47(3):21
petroleum hydrocarbon detection by
chemosensory threshold determination, FB 78:822
composition of water soluble fraction, FB 78:823
detection thresholds, FB 78:823
experimental solutions, FB 78:822
salmonid predation, FB 83:683
Crab, Florida stone
assessment of fishery, TM SEFC-21
assessment of fishery, 1980-81, TM SEFC-79
Crab, golden king
larval description
comparison of larval stages with descriptions by other authors, FB 80:312
stage I zoea, FB 80:305
stage II zoea, FB 80:308
stage III zoea, FB 80:309
stage IV zoea, FB 80:309
stage V (glaucothoe), FB 80:310
Crab, hermit
found in coral reef snail shells (Trochus spp.), MFR 46(4):76
seamount fishery research, central North Pacific, MFR 46(2):12
Crab, horseshoe
feeding, FB 82:383, 387
mortality, FB 82:388
population, FB 82:383
prey, FB 82:387
Crab, Jonah
lobster trap, FB 81:51
Crab, king
larvae
distribution and abundance in Kachemak Bay, S 765
satellite monitoring of ice cover affecting winter fisheries, MFR 46(3):7
Crab, lithodid
collection methods, FB 82:315
larvae, morphology
Cryptolithodes typicus, FB 82:323
Hapalogaster grebnitzkii, *Dermaturus mandtii*, and *P. beivipes*, FB 82:323
Hapalogaster mertensii, FB 82:323
Lithodes aequispina, FB 82:323
Paralithodes brevipes, FB 82:322
Paralithodes brevipes, *P. camtschatica*, and *P. platypus*, FB 82:323
Placetron wosnessenskii and *Rhinolithodes wosnessenskii*, FB 82:324

Crab, lithodid (continued)
zoeae, descriptions
Lithodes vs. Pagerinae, FB 82:321
Placetron wosnessenskii, FB 82:317
Rhinolithodes wosnessenskii, FB 82:318, 320
Crab, mud
Alabama, FB 81:885
American oyster, *Crassostrea virginica*, FB 81:863
characteristics, FB 81:877
coloration, FB 81:884, 888, 889
differences from other Panopeus species, FB 81:877
ecology, FB 81:887
electrophoresis of hemocyanins, FB 81:883
genetic variability, FB 81:884
habitat, FB 81:884, 885
morphological characters, FB 81:886
North Carolina, FB 81:883
Panopeus austrobesus new species, FB 81:865
Panopeus herbstii H. Milne Edwards, s.s., FB 81:866
Panopeus lacustris Desbonne, FB 81:868
Panopeus meridionalis new species, FB 81:872
Panopeus obesus Smith, new rank, FB 81:873
Panopeus simpsoni Rathbun, new rank, FB 81:875
physical and biological factors, FB 81:886
predators, FB 81:863
prey, FB 81:884
species accounts, FB 81:865
statistical analyses, FB 81:886
Crab, Pacific king
life history studies, MFR 45(10-12):14
recruitment studies, MFR 45(10-12):4
Crab, rock, FB 82:387
as oyster spat predators, MFR 45(3):5
Bay of Fundy, FB 81:357
divers, FB 81:357
fecundity, FB 81:361
gonads, FB 81:358
lobster trap, FB 81:51, 357
maturity, FB 81:359
nonovigorous females and males, FB 81:357
ovigerous females, FB 81:358
southwestern Nova Scotia, FB 81:357
trawls, FB 81:357
Crab, snow
description of stage II zoeae from plankton of lower Cook Inlet, Alaska
comparison of North Pacific zoeae of the subfamily Oregoniinae, FB 79:180
key for distinguishing stage II zoeae, FB 79:181
satellite monitoring of ice cover affecting winter fisheries, MFR 46(3):7
spring breeding migration, FB 83:707
Crab, spider
elemental composition and energy in growing and starving larvae
biomass loss during starvation, FB 80:427
growth, FB 80:420
Crab, tropical swimming
Carolinian records for, postulated means of dispersal, FB 79:192
Crangonidae—see Shrimp
Crassostrea angulata—see Oyster, Portuguese
Crassostrea gigas—see Oyster, Pacific
Crassostrea virginica—see Oyster, American; Oyster, eastern
Crenomytilus graynus—see Mussel, Far East
Crepidula fornicata—see Shells, slipper
Crepidula plana—see Shells, slipper
Croaker
effect of washing on quality characteristics, held in frozen storage
chemical analysis, MFR 42(11):27
functionality analysis, MFR 42(11):28
functionality measurement, MFR 42(11):27
loss of total solids, MFR 42(11):27
microbiological evaluation, MFR 42(11):29
microbiological examination, MFR 42(11):27
organoleptic analysis, MFR 42(11):29
sample preparation, MFR 42(11):26
sensory evaluation, MFR 42(11):27
washing, MFR 42(11):26
incidental harvest in South Atlantic shrimp fishery, MFR 45(7-9):27
in experimental seawater systems
chilled and refrigerated, TM SEFC-92
Croaker, Atlantic
analysis of migration patterns using isotope ratios, FB 81:789
Cape Fear River, North Carolina
maturity, spawning, and fecundity north of Cape Hatteras, North Carolina, FB 78:190
retention of postlarval in tidal estuary, FB 78:419
evaluation of marks on hard parts to determine age, TM SEFC-22
infections, FB 81:895
landings, Louisiana charterboat fishery, MFR 45(1):15
larvae, FB 81:895
larvae distribution patterns, MFR 45(10-12):19
larval abundance, FB 81:407
marsh habitat, FB 82:457
mean standard length, FB 81:407, 411
1972-73 season, FB 81:408
1973-74 season, FB 81:409
occurrence of, FB 81:405
recruitment studies, MFR 45(10-12):4
used in surimi production, MFR 46(2):45
Croaker, black
seasonal spawning cycle, FB 79:561
Croaker, white
age determination, FB 82:180, 185
eggs and larvae off southern California coast
comparison with similar species, FB 80:413
distribution, FB 80:415
embryonic development, FB 80:404
fin development, FB 80:410
head spination, FB 80:411
ossification, FB 80:411
pigmentation, FB 80:407
proportions, FB 80:413
yolk-sac larvae morphology, FB 80:407
yolk-sac larvae pigmentation, FB 80:405
fishery, FB 82:182, 192, 196
ichthyoplankton, FB 82:181, 188
larvae, FB 82:188, 195
life history, FB 82:179
seasonal differences, FB 82:184
vertical stratification off southern California, FB 80:895
Crustacea
life history, distribution, and abundance in New York Bight, S 766

Crustacea, epibenthic
abundance and associations
western Gulf of Mexico, TM SEFC-137
Crustaceans
chemical composition, TM SEFC-11
nutritional composition, TM SEFC-11
Crustaceans, Black Sea
helminths, TR 25
Crustaceans, decapod
Cooper River
abundance and distribution, S 782
South Carolina estuarine system, S 757
Crustaceans, isopod
distribution, TR 25
Cryptocanthodidae
ichthyoplankton off Alaska, TR 20
Culture studies
abalone, TR 16
blood ark shells, TR 16
oyster, TR 16
pecten, TR 16
prawn, freshwater, TR 16
salmon, chum, TR 27
salmon, TR 27
shellfish, TR 16
shrimp, Kuruma, TR 16
shrimp, penaeid, TR 16
Cunner
foraging behavior, FB 81:426
intertidal feeding, FB 81:426
Scituate, Mass, FB 81:426
Current variations
observed off Florida central eastern coast, TM SEFC-6
Currents
Buccaneer gas and oil field
environmental assessment, TM SEFC-40
milestone report to the Environmental Protection Agency, TM SEFC-50
Cusk
Atlantic Ocean, N.W.
food habits, S 740
Cusk-eel, fawn
Atlantic Ocean, N.W.
food habits, S 740
Cyclograpsus integer
larval development in laboratory
fifth zoea (penultimate), FB 80:511
fifth zoea (ultimate), FB 80:511
first zoea, FB 80:504
fourth zoea, FB 80:508
megalopa, FB 80:513
rearing experiment results, FB 80:502
second zoea, FB 80:505
sixth zoea, FB 80:513
third zoea, FB 80:508
Cyclopteridae
ichthyoplankton off Alaska, TR 20
Cymatogester aggregata—see Perch, shiner
Cynoscion arenarius—see Seatrout, sand
Cynoscion nebulosus—see Seatrout, spotted
Cynoscion nothus—see Seatrout, silver
Cynoscion regalis—see Weakfish

D

Damariscotta Lake, Maine
alewife, anadromous
difference in sex ratios between the top and bottom of a fishway, FB 79:207
Dams
underwater separation methods for juvenile salmonids, MFR 47(3):38
Dams, hydroelectric
tracking studies
salmonids in lower Columbia River, TM F/NWC-81
Dardanus spp.—see Crab, hermit
Data management
Buccaneer gas and oil field
environmental assessment, TM SEFC-35
Database systems
resource survey
Northwest Alaska Fisheries Center, 1981, TM F/NWC-18
Dauphin Island, Alabama
shark, finetooth
occurrence off, FB 78:177
Debris
workshop proceedings on fate and impact in marine environment, November, 1984, TM SWFC-54
Decapoda
life history, distribution, and abundance in New York Bight, S 766
Decapods
Cooper River, S.C.
seasonal abundance and distribution, S 782
South Carolina estuarine system, S 757
Decapterus punctatus—see Scad, round
Decapterus tabl—see Mackerel, scad
Delaware
coastal
secondary production of benthic macrofauna, TM F/NEC-32
marine fisheries
alewives, FB 79:585
bass, striped, FB 79:588
clam, hard, FB 79:587
clam, surf, FB 79:583
crab, blue, FB 79:583
croaker, FB 79:587
dredges, clam, FB 79:596
dredges, crab, FB 79:596
dredges, oyster, FB 79:595
eel, American, FB 79:589
food finfishes, FB 79:579
food shellfishes, FB 79:580
industrial, FB 79:579
lines, FB 79:593
menhaden, FB 79:581
mullet, FB 79:588
nets, fyke, FB 79:597
nets, gill, FB 79:590
nets, pound, FB 79:595
oceanographic regime, FB 79:581
oyster, American, FB 79:584
perch, white, FB 79:589
pots, FB 79:592
rakes, FB 79:597
recreational, FB 79:580

Delaware (continued)
marine fisheries (continued)
seines, haul, FB 79:592
seines, purse, FB 79:590
shad, FB 79:586
spot, FB 79:587
sturgeon, FB 79:586
trawl, otter, FB 79:593
weakfish, FB 79:585
Delaware Bay
secondary production of benthic macrofauna, TM F/NEC-32
Delaware River
Atlantic sturgeon in estuary, FB 80:337
Delphi technique
potential method for evaluating recreational fisheries, TM SEFC-19
Delphinapterus leucas—see Whale, beluga; see Whales, white
Delphinids
evaluation of
marking, tagging, and tatooing techniques, TM SWFC-16
Delphinus delphis—see Dolphin, common
Demersal species
contaminants in
Long Island Sound, TM F/NEC-16
New York Bight, TM F/NEC-16
Denil fishway
passage of nonsalmonid fishes, MFR 47(1):83
Dermochelys coriacea—see Turtle, leatherback
Deschutes River, Oregon, salmon migration, FB 82:157
Diadumene leucolena—see Anemone, bay
Diatrizoate
absorption in marine turtles, TM SEFC-93
Dichelopandalus leptocerus—see Shrimp
Dictyota
as substrate for Gambierdiscus toxicus, MFR 46(1):16
Diet—see also Food habits
effects on spot prawn laboratory culture, TM F/NWC-68
Diet intake
computer simulation model
estimate of cadmium from seafood, TM SEFC-74
Dinoflagellate
Gymnodinium splendens in California Current, MFR 45(10-12):11
Diontidae—see Porcupine fishes
Diplectrum formosum—see Perch, sand
Diplodus holbrooki—see Pinfish, spottail
Disease
caused by organisms in bait shrimp
West Galveston Bay, SEFC-169
environment, stress and disease in aquaculture, TR 27
pathology and parasitology of marine fish of world ocean, TR 25
Penaeid shrimp cultured in Mexico, TR 16
Disease, infectious
hematopoietic necrosis virus
salmon, chinook, TM F/NWC-22
Dogfish
horny
seamount fishery research, central North Pacific, MFR 46(2):11
spiny
Bay of Fundy-Gulf of Maine, FB 82:131
effects of processing on storage, MFR 47(1):48
Dolly varden
estuarine migrations of juveniles, MFR 46(3):64
Dolphin
Atlantic Ocean
guide to fishes caught in longlining operations, C 435
Barbados, FB 81:906
co-occurring with tunas
annotated bibliography of their ecology, eastern tropical Pacific, TM SWFC-21
distribution
eastern tropical Pacific, TM SWFC-38
food and gastrointestinal parasites of
in the southeastern and gulf coasts of the U.S., TM SEFC-124
eastern tropical Pacific, FB 81:1
growth, FB 81:908
habitats in the eastern tropical Pacific, FB 83:623
incidental mortality, FB 83:521
incidental mortality reduction
behavior patterns, MFR 46(3):20
management recommendations, MFR 46(3):32
mortality, MFR 46(3):20
net configuration, MFR 46(3):21
regulations, MFR 46(3):18, 23
research, behavioral, MFR 46(3):29
research, mechanical
handling methods/gear, MFR 46(3):25
net design/improvements, MFR 46(3):25
net/vessel handling, MFR 46(3):23
juvenile survival rate
from the proportion of nursing calves, TM SWFC-51
kill rates, FB 81:5
Pacific Ocean
identification guide, C 444
population, FB 81:1
proportions of species
eastern tropical Pacific, TM SWFC-56
purse seine fishery, FB 81:1
reactions to population survey vessels, FB 83:187
recruitment rates, FB 81:8
release procedure
using model purse seines, TM SWFC-25
sagittal otoliths, FB 81:906, 907
stock abundance
involved in the eastern tropical Pacific yellowfin tuna fishery, TM SWFC-23
tuna purse seine fishery mortality
eastern tropical Pacific, prior to 1970, TM SWFC-34
Dolphin, Atlantic bottlenose
movements and activities near Sarasota, Florida
data collection and analysis, FB 79:672
food resources and feeding behavior, FB 79:684
home range, FB 79:675
reproduction and growth, FB 79:685
social interactions, FB 79:681
social structure, FB 79:679
study area, FB 79:672
Dolphin, Atlantic whitesided
Atlantic Ocean, western North
southern distribution, FB 78:167
Dolphin, bottlenose
Florida, western peninsular
aerial surveys, FB 80:621

Dolphin, bottlenose (continued)
occurrence, movements, and distribution in southern Texas, FB 78:593
Pacific Ocean
identification guide, C 444
Dolphin, commom
Pacific Ocean
identification, C 444
undersea topography and distribution, FB 83:472
variation and distribution, TR 28
Dolphin, eastern spinner
marine resource management under uncertainty, MFR 43(10):1
Dolphin, Fraser's
eastern tropical Pacific, FB 81:283
mesopelagic fishes, FB 81:283, 284
otoliths, FB 81:284, 286
Pacific Ocean
identification guide, C 444
purse seine, FB 81:283
shrimp, FB 81:284, 287
squid, FB 81:284, 287
stomach contents, FB 81:283
Dolphin, Hawaiian spinner
age through teeth, FB 82:207
birth season, FB 82:221, 224
dental layers, FB 82:207
lunar monthly cycles, FB 82:223
sexual maturity, FB 82:224
Dolphin, northern right whale
Pacific Ocean
identification guide, C 444
Dolphin, Pacific white-sided
food of, off California and Washington, TM F/NWC-2
prey distribution, FB 78:955
prey size, FB 78:957
prey species, FB 78:955
stomach capacity of predators, FB 78:955
Pacific Ocean
identification guide, C 444
Dolphin, Risso's
Pacific Ocean
identification guide, C 444
Dolphin, rough-toothed
Pacific Ocean
identification guide, C 444
Dolphin, spinner
eastern, FB 81:3
eastern tropical Pacific, FB 81:1
estimating age from teeth, TM SWFC-30
is ovulation always copulation-induced?
early pregnancy, FB 78:512
immature females, FB 78:508
lactating females, FB 78:518
late pregnancy, FB 78:515
mature females, FB 78:509
nonpregant animals with corpus luteum, FB 78:518
observations on mass stranding, west coast of Florida
circumstances, FB 78:353
morphology, external, FB 78:358
necropsy, FB 78:355
physical maturity, FB 78:358
productive seasonality, FB 78:357
Dolphin, spinner (continued)
observations on mass stranding (continued)
reproductive data, FB 78:355
weights, FB 78:360
Pacific Ocean
identification guide, C 444
variation and distribution, eastern tropical Pacific, TR 28
whitebelly, FB 81:3
Dolphin, spotted
age distributions
interpretations, TM SWFC-48
coastal, FB 81:2
eastern tropical Pacific, FB 81:1
estimating age from teeth, TM SWFC-30
growth rates, FB 83:553
is ovulation always copulation-induced?
early pregnancy, FB 78:512
immature females, FB 78:508
lactating females, FB 78:518
late pregnancy, FB 78:515
mature females, FB 78:509
nonpregant animals with corpus luteum, FB 78:518
northern offshore
age determination, TM SWFC-35
offshore, FB 81:2
Pacific Ocean
identification guide, C 444
passive behavior in tuna purse seing nets, FB 78:535
reproductive rates, FB 83:657
variation and distribution, TR 28
Dolphin, striped
Pacific Ocean
identification guide, C 444
variation and distribution, TR 28
Dolphin fish (or mahi-mahi)
histamine formation in fresh fish, MFR 45(4-6):43
landings in Florida Gulf coast and Keys charterboat fishery, MFR 45(1):16
observations, warm water periods, California, MFR 45(4-6): 27
Dolphin fishes
development and structure of fins and fin supports
anal fin, FB 78:290
anal fin pterygiophores, FB 78:291
caudal fin, FB 78:295
caudal fin supports, FB 78:296
dorsal fin, FB 78:278
dorsal fin pterygiophores, FB 78:281
pectoral fin and supports, FB 78:300
pelvic fin and supports, FB 78:304
vertebral column, FB 78:278
synopsis of biological data on *Coryphaena hippurus* Linnaeus and *Coryphaena equiselis* Linnaeus
bionomics and life history, C 443
culture, C 443
distribution, C 443
exploitation, C 443
identification, C 443
population, C 443
protection and management, C 443
Dolphin mortality
estimating, FB 81:1

Dolphin mortality (continued)
estimating and monitoring incidental in eastern tropical Pacific
combined kill-per-day and kill-per-ton method, FB 80:398
estimation procedures, FB 80:397
kill-per-day method, FB 80:397
kill-per-set method, FB 80:399
Dolphin schools
corral system for examining pelagic, MFR 43(11):16
movement and speed, responding to an approaching ship
school speed, FB 80:376
swimming behavior and school structure, FB 80:377
vessel avoidance, FB 80:373
Dosidicus gigas
identification, TR 17
Dredge, clam—see Clam dredge
Dredge, electrohydraulic
design of, for clam surveys
basic concept development, MFR 44(4):1
blade design, MFR 44(4):4
cage design, MFR 44(4):5
diver observations, MFR 44(4):7
dredge hydraulics, MFR 44(4):11
main winch tension test, MFR 44(4):8
manifold assembly, MFR 44(4):5
operating parameters, MFR 44(4):8
operation, MFR 44(4):5
path surveys, MFR 44(4):9
submersible pump mount, MFR 44(4):5
submersible supply loss calculations, MFR 44(4):13
substrate testing, MFR 44(4):8
surface supply loss calculations, MFR 44(4):13
testing, MFR 44(4):6
video taping, MFR 44(4):8
Dredged sand
effects on nearshore macroinfauna, TM SEFC-133
Drill, oyster
abundance on oyster seed beds, northeastern U.S., MFR 45(3):5
biological data, TR 35
Drum, banded
age determination, FB 82:353
age-growth relationship, FB 82:233
comparison with earlier descriptions, FB 78:133
comparison with other larval Sciaenidae, FB 78:134
description, FB 78:125
growth, FB 82:355
life history, FB 82:337
maturity, FB 82:229, 233
reproduction, FB 82:227
sex ratio, FB 82:232
spawning, FB 82:228, 233
spawning periodicity, FB 82:339, 344, 350, 357
spawning seasons and areas, FB 78:133
Drum, black, FB 82:378
Drum, red
effects of temperature and salinity on egg hatching and larval survival, FB 79:569
Texas charterboat fishery harvest, MFR 45(1):11
Drum, star
comparison with earlier descriptions, FB 78:133
comparison with other larval Sciaenidae, FB 78:134
description, FB 78:129
spawning seasons and areas, FB 78:134
Dudong, FB 81:501
Duncan's test, FB 81:272

E

E. drummondhayi—see Fish, reef
Eastern Pacific Ocean Tuna Fishing Agreement, MFR 46(4):72
Echinodermata: Echinoidea
distribution, TR 33
external morphology, TR 33
index, TR 33
key to species, TR 33
life history, distribution, and abundance in New York Bight, S 766
natural history, TR 33
systematic list, TR 33
Echinometridae—see Sea urchin
Ecology
annotated bibliography of co-occurring tunas and dolphins eastern tropical Pacific, TM SWFC-21
interactions between shrimp and bottomfishes, TM SEFC-63
salmon in early marine life, TR 27
Ecology, fish
parasites as indicators, TR 25
Economic studies
analysis of commercial mackerel fishery, TM SEFC-101
available for invertebrate fisheries (except shrimp), TM SEFC-88
bass fishery, FB 81:168
Bureau of Commercial Fishery, working paper series, TM SEFC-86
business turnover in Texas charterboat industry 1975-80, MFR 47(1):43
Dungeness crab resources
California, 1982-83, TM F/SWR-006
California, 1983-84, TM F/SWR-008
fisheries literature survey, TM F/NWC-47
fishery production, TM F/NWC-60
fishing industry energy conservation technology, TM F/NWC-39
groundfish
California, 1983, TM F/SWR-004
California, 1984, TM F/SWR-010
Oregon, 1984, TM F/SWR-010
Washington, 1984, TM F/SWR-010
habitat management decisions, TM F/NWR-10
impact on Alaskan shellfish fishery, TM F/NWC-9
implications
loss of INPFC for Japanese North Pacific salmon fishery, TM F/AKR-1
increasing usefulness of
for salmon and steelhead production decisions, TM F/NWR-8
jack mackerel fishery
northeastern Pacific, TM SWFC-4
marine recreational fishing
NMFS guidelines, TM SWFC-32
net values
salmon, Columbia River, TM F/NWR-3
steelhead, Columbia River, TM F/NWR-3
offshore shrimp fishery
Gulf of Mexico, TM SEFC-99
Perch, Pacific Ocean, TM F/NWC-72
pink shrimp resources
California, 1983, TM F/SWR-007
California, 1984, TM F/SWR-009

Economic studies (continued)
report on mackerel management units, TM SEFC-84
RSW and CSW systems for semi-tropical waters, TM SEFC-102
salmon resources
California, 1983, TM F/SWR-005
shrimp, rock, FB 83:1
shrimp fisheries report
southeastern U.S., TM SEFC-100
shrimp fishery, FB 82:365
shrimp vessels, Gulf of Mexico, FB 82:365
U.S. fishing industry's harvest sector, TM F/NEC-40
Ecosystem—see Large Marine Ecosystem (LME)
Ecosystems
crab, mud, FB 81:885
ECOPATH model, FB 83:457
estimating a box model, FB 83:457
kelp, cobble bottom, California, FB 82:37
kelp forests, California, FB 82:55
macrobenthos
Pigeon Hill, Gulf of Maine, F/NEC-14
northeastern outer continental shelf
role of marine mammals, MFR 47(1):13
simulation I
fish species data for, TM F/NWC-29
zooplankton, FB 81:857
EDMAP 2
computer program documentation, TM SWFC-18
Eel, American—see also Eel, Atlantic
growth rates, FB 82:519
Eel, Atlantic
distribution of leptocephali, FB 81:490
drift migration, FB 81:483
drift simulation, FB 81:483, 496, 498
leptocephali (larvae), FB 81:483
north Atlantic Ocean, FB 81:483, 485
Eel, conger
Ariosoma bowersi, MFR 46(2):12
Conger wilksoni, MFR 46(2):12
Congerellus aequoreus, MFR 46(2):12
Eel, European—see Eel, Atlantic
Eel, moray
Gymnothorax berndti, MFR 46(2):12
Gymnothorax steindachneri, MFR 46(2):12
Gymnothorax undulatus, MFR 46(2):12
Eel, wolf
migration from Port Hardy, British Columbia, to Willapa Bay, Washington, FB 80:650
Eels, congrid
key to leptocephali of the eastern Pacific, TR 22
Eel culture
method of culture, TR 10
Egg production method
anchovy, northern, TR 36
Eggs—see also Embryos
Eicosapentaenoic acid
in fish oil, MFR 46(2):60
Eimeria angiullae
key to species, TR 11
taxonomy, TR 11
Eimeria aurati
key to species, TR 11
taxonomy, TR 11
Eimeria brevoortiana
key to species, TR 11
taxonomy, TR 11
Eimeria catostomi
key to species, TR 11
taxonomy, TR 11
Eimeria duszynskii
key to species, TR 11
taxonomy, TR 11
Eimeria etheostomae
key to species, TR 11
taxonomy, TR 11
Eimeria fernandoae
key to species, TR 11
taxonomy, TR 11
Eimeria freemani
key to species, TR 11
taxonomy, TR 11
Eimeria funduli
key to species, TR 11
taxonomy, TR 11
Eimeria gasterostei
key to species, TR 11
taxonomy, TR 11
Eimeria glenorensis
key to species, TR 11
taxonomy, TR 11
Eimeria haneki
key to species, TR 11
taxonomy, TR 11
Eimeria hoffmani
key to species, TR 11
taxonomy, TR 11
Eimeria hybognathi
key to species, TR 11
taxonomy, TR 11
Eimeria ictaluri
key to species, TR 11
taxonomy, TR 11
Eimeria iroquoina
key to species, TR 11
taxonomy, TR 11
Eimeria laureleus
key to species, TR 11
taxonomy, TR 11
Eimeria micropteri
key to species, TR 11
taxonomy, TR 11
Eimeria moronei
key to species, TR 11
taxonomy, TR 11
Eimeria myoxocephali
key to species, TR 11
taxonomy, TR 11
Eimeria ojibwana
key to species, TR 11
taxonomy, TR 11
Eimeria osmeri
key to species, TR 11
taxonomy, TR 11
Eimeria pungitii
key to species, TR 11

Eimeria pungitii (continued)
taxonomy, TR 11
Eimeria salvelini
key to species, TR 11
taxonomy, TR 11
Eimeria squali
key to species, TR 11
taxonomy, TR 11
Eimeria tedlai
key to species, TR 11
taxonomy, TR 11
Eimeria truttae
key to species, TR 11
taxonomy, TR 11
Eimeriidae
key to species, TR 11
taxonomy, TR 11
El Niño, FB 81:363
California review, 1982-83, TM SWFC-43
effects on sea urchins, MFR 47(3):4, 5
effects on tuna resources, MFR 46(4):65
fish movements, MFR 45(4-6):27
Pacific Northwest
Kelvin waves, MFR 46(1):7
oceanographic observations, MFR 46(1):7
sea surface temperature anomolies, MFR 46(1):7
sigma-*t* density, MFR 46(1):9
subsurface conditions, MFR 46(1):8
sea surface temperatures, MFR 45(4-6):27-30
Southern California, fish catch recreational
harvest effects, 1983-84, MFR 45(4-6):34
species, MFR 45(4-6):32-33
Electron microscope, scanning (SEM)
etching, FB 82:435
increment counts, FB 82:435, 437
otoliths, FB 82:434
Electrophoresis
crab, mud, FB 81:883
marlin, Pacific blue, FB 81:86
sole, yellowfin, FB 81:667
protein patterns in Spanish mackerel, TM SEFC-76
tilefish, FB 81:42, 43
Elirginus gracilis—see Cod, saffron
Elliott and Persson model, FB 81:437
Elops saurus—see Ladyfish
Embassichthys bathybius—see Sole, deepsea
Embryos
grunion, California, FB 81:475
menhaden, gulf, FB 82:87
pollock, walleye, FB 81:890
salmonid, FB 83:81
sculpin, longhorn, FB 81:782
scup, FB 82:78
shark, sandtiger, FB 81:210
Enchelyopus cimbrius—see Rockling, fourbeard
Endangered Species Act (ESA), MFR 46(4):2
Endangered whales
Endangered Species Act (ESA)
listed whales' status, MFR 46(4):2
listing factors, MFR 46(4):2
populations, MFR 46(4):5, 6
status review, MFR 46(4):2, 4, 5
Energy budgets—see Fish bioenergetics
Energy conservation
fishing industry technology, TM F/NWC-39
Energy requirements
cetacean stocks
northeastern U.S., TM F/NEC-41
Enewetak, Marshall Islands
ciguatera survey, FB 78:201
Enforcement Management Information System (EMIS)
marine mammal catch data, MFR 45(7-9):48
Engraulidae
ichthyoplankton larval distribution and abundance
Gulf of Mexico, 1982, TM SEFC-144
Engraulis encrasicholus—see Anchovy, Black Sea
Engraulis mordax—see Anchovy, northern; Anchovy, northern Pacific
Enhydra lutris—see Otter, sea
Enoploteuthis spp.—see Squid
Enterobacter aerogenes
isolated from tuna, MFR 45(4-6):35-37,40
Enterobacteriaceae
in freshly caught marine fish, MFR 45(4-6):35,38
Environment
New York Bight
plankton net sampling, TR 5
marine conditions
U.S. coasts, 1978-79, TM OF-5
Martha's Vineyard, U.S.
macrobenthic invertebrates, S 783
macrophage accumulations and fish health, TR 25
Environmental Protection Agency (EPA)
report on environmental assessments of Buccaneer gas and oil fields, TM SEFC-47–SEFC-52
Environmental studies
assessments, Buccaneer gas and oil field, 1976-80
bacteria, TM SEFC-49
currents, TM SEFC-50
fishes, TM SEFC-48
hydrography, TM SEFC-50
macrocrustaceans, TM SEFC-48
particulates, TM SEFC-47
sediments, TM SEFC-47
volitile hydrocarbons, TM SEFC-47
assessments, Buccaneer gas and oil field, 1978-79
bacteria, TM SEFC-38
currents, TM SEFC-40
fate and effects modeling, TM SEFC-43
fishes, TM SEFC-37
fouling community, TM SEFC-39
hydrocarbons, TM SEFC-41
hydrodynamic modeling, TM SEFC-44
hydrography, TM SEFC-40
macrocrustaceans, TM SEFC-37
particulates, TM SEFC-36
sediments, TM SEFC-36
synopsis/data management, TM SEFC-35
trace metals, TM SEFC-42
availability of albacore, MFR 47(3):48
benchmark studies
Casco Bay, Maine, TM F/NEC-19
Portland Harbor, Maine, TM F/NEC-19

Environmental studies (continued)
conditions—see also Habitat effects
U.S. coasts, 1978-79, TM OF-5
effects
anchovy, northern, FB 83:483
dolphin habitats, FB 83:623
food web, FB 83:151
grunts, French, FB 83:413
larval fish, FB 83:313
mummichog, FB 83:467
porpoise, harbor, FB 83:427
tilefish, FB 83:443
efficient storage and retrieval
standardized data condensation, TM SEFC-10
Guam and northern Mariana Islands, TM SWFC-40
marlin, striped
sea surface temperature relationship to catch, MFR 47(3):43
temperature conditions in the Cold Pool, TR 24
whiting, Pacific, MFR 47(2):10
Epibenthic crustacea
abundance and associations
western Gulf of Mexico, TM SEFC-137
Epinephelus niveatus—see Fish, reef
Epinephelus quernus—see Grouper
Erignathus barbatus—see Seal, bearded
Escherichia coli
histamine production from tuna, MFR 45(4-6):35
Eschrichtius robustus—see Whale, gray
Estuarine and inshore waters
Florida Everglades
abundance and distribution, TR 6
ichthyoplankton sampling, TR 6
South Carolina
fish and decapod crustacean community, S 757
Estuary
crab, Dungeness, nursery habitat in Columbia River, MFR 47(3):21
Etropus crossotus
larval development and occurrence
cephalic spination, FB 80:67
characters, distinguishing, FB 80:63
counts, FB 80:37
developmental terminology, FB 80:37
fin and axial skeleton formation, FB 80:67
identification, FB 80:38, 62
morphometrics, FB 80:37, 64
occurrence, FB 80:67
pigmentation, FB 80:63
specimens, FB 80:36
teeth, FB 80:67
transformation, FB 80:67
Eualus fabricii
description
stage I and II zoeae, FB 79:430
Eualus suckleyi
description
stage I zoeae, FB 79:426
stage II zoeae, FB 79:429
Eubalaena glacialis—see Whale, right
Eukrohnia bathyantarctica
chaetognatha of the Caribbean Sea
classification, TR 15
Eukrohnia bathyantarctica (continued)
chaetognatha of the Caribbean Sea (continued)
key to species, TR 15
Eukrohnia bathypelagica
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Eukrohnia fowleri
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Eukrohnia hamata
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Eukrohnia proboscidea
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Eumetopias jubatus—see Sea lion, northern; Sea lion, Steller
Eunicida
life history, distribution, and abundance in New York Bight, S 766
Euphausia eximia
larval development
distribution, vertical, FB 78:331
larval stages described, FB 78:315
observations of reared animals, FB 78:315
population, South Pacific, FB 78:328
Euphausiids—see Krill
Eupleura caudata—see Drill, oyster
Euthynnus affinis—see Tuna
Euthynnus alletteratus—see Tunny, little
Euthynnus pelamis—see Tuna, skipjack
Everglades, Florida
ichthyoplankton sampling, TR 6
Ex-vessel
impacts on prices and values
from Texas closure regulation, 1981-82, TM SEFC-111
from Texas closure regulation, 1982 and 1983, TM SEFC-148
Experiments
Nantucket Shoals
flux experiments, TM F/NEC-23
porpoises
PET DOTS (porpoise experiment testing detection of on-track schools), TM SWFC-27
refrigerated and chilled seawater systems for groundfish species, TM SEFC-92
salmon, Columbia River
homing and transplantation, TM F/NWC-12
steelhead trout, Columbia River
homing and transplantation, TM F/NWC-12
tagging
Louisiana brown shrimp, movement and migration, 1978, TM SEFC-78
Louisiana penaeid shrimp, 1979, TM SEFC-89
Louisiana white shrimp, TM SEFC-72
tagging-double
planning, TM SWFC-13
with an 83/112 eastern trawl, TM F/NWC-16

Faka Union Bay, Florida
fish forage communities in relation to habitat parameters, TM SEFC-162
Falkland-Patagonia Region
parasites of fishes, TR 25
FAO
Norway Regional Acoustic Centre, FB 81:363
Farallon Islands
pinnipeds
predation by sharks, FB 78:941
Fatty acids—see also Saturated fatty acids
in coastal herring, MFR 45(4-6):45-48
Feeding—see Food habits
Financial profile
shrimp vessels
southeast U.S., TM SEFC-159
Finfish
Atlantic demersal finfish management plan, TM F/NEC-2
comparison of shrimp and, catch rates and ratios for Texas and Louisiana
catch rates and ratios, MFR 44(9-10):45
contemporary data, MFR 44(9-10):44
data analysis, MFR 44(9-10):45
historical data, MFR 44(9-10):45
species composition, MFR 44(9-10):48
composition
chemical and nutritional, TM SEFC-11
survey
selected organic pollutants, TM F/NEC-13
U.S. coastal waters, FB 81:391
Finfish, demersal
Atlantic fishery management plan
history and status, TM F/NEC-2
Louisiana salt dome brine disposal sites, 1978-79
biochemical survey, TM SEFC-28
Finfish, marine
maturation and spawning, TR 10
propagation and culture techniques
bass, striped, TR 10
parrotfish, TR 10
porgy, TR 10
sea bream, TR 10
yellowtail, TR 10
Finfish, northwest Atlantic
diet overlap between
Atlantic cod, FB 80:745
silver hake, FB 80:745
Finfish pathogens, MFR 46(3):14
Finfish resources
Gulf of Mexico, MFR 46(1):19
Fish
Alaskan, parasite-host records, S 760
Antarctic parasitic fauna, TR 25
aquarium
balanced marine aquarium, TM SEFC-59
biology of species collected in Monroe County, Florida, TM SEFC-59
associated with Gulf of Alaska seamounts, MFR 43(1):26
Atlantic Ocean, northwest, and Gulf of Mexico
organochlorine residues, FB 78:51
Fish (continued)
Atlantic menhaden
egg and larvae distribution, S 774
behavioral factors affecting entrapment at offshore cooling-water intake structures in southern California, MFR 47(1):18
Beloniformes
monogenean fauna, TR 25
Biscayne Bay, Florida
interrelation of water quality, gill parasites, and gill pathology, FB 80:269
Buccaneer gas and oil field
environmental assessment, TM SEFC-37
milestone report to the Environmental Protection Agency (EPA), TM SEFC-48
California, southern and central
pelagic resource abundance, 1963-78, S 762
Californian nearshore, crepuscular and nocturnal activities
activity patterns, FB 79:19
day and night feeders, FB 79:18
day feeders, FB 79:8
determining activity patterns in fishes, FB 79:3
determining spectral composition of submarine sunlight, FB 79:2
determining spectral photosensitivity of fishes, FB 79:3
night feeders, FB 79:15
scotopic spectral sensitivity and ambient light, FB 79:23
scotopic spectral sensitivity and bioluminescence, FB 79:24
submarine daylight, FB 79:3
submarine nightlight, FB 79:5
commercial
trematodes, TR 25
consumer expenditure patterns, MFR 44(3):1
Cooper River, S.C.
seasonal abundance and distribution, S 782
daily time of spawning in the Peconic Bays, New York, FB 78:455
deepwater tagging, FB 81:663
demersal
Chukchi Sea and Beaufort Sea trawl-caught, S 764
Middle Atlantic Bight, food habits and trophic relationships, S 773
trophic relationships in Gulf of Maine:
benthos analysis, FB 79:783
dietary overlap, FB 79:781
fish abundance, FB 79:777
foods, FB 79:777
prey size and predator mouth morphology, FB 79:782
distributional patterns in the Channel Islands, FB 83:243
ecosystem model evaluation, MFR 47(1):9
Falkland-Patagonian Region
parasitic fauna, TR 25
feeding ecology along Antarctic Peninsula
dietary similarity, FB 80:583
diets, FB 80:579
feeding behaviors, FB 80:578
study area, FB 80:575
Florida Everglades
abundance and distribution of larvae, eggs, and juveniles, TR 6
ichthyoplankton sampling, TR 6
food
Arabian Gulf, proximate composition and nutritive value, FB 79:211

Fish (continued)
food habits
north Pacific species, TM F/NWR-54
northwest Atlantic species, TM F/NEC-28
food habits data base, MFR 47(1):9
frozen
instrument for determining depth of dehydration, MFR 42(6):32
gadiform
food habits, Atlantic Ocean, northwest, S 740
gobiid
comparison of ecological and life information, TM SEFC-15
Gulf of Mexico
flatworm fauna, TR 25
kelp forest
abundance, FB 82:44
vertical distribution, FB 82:47
liver microsomes
metabolism of benzo(a)pyrene, literature review and preliminary studies, TM SEFC-123
marine
life history patterns and consequences for fisheries management *r* and *K* selection, FB 78:2
response of *r* and *K* selected species to harvesting, FB 78:4
theory of *r* and *K* selection, FB 78:1
marine and estuarine
parasites of in California, Oregon, and Washington, S 777
Maryland commercial landings
identifying climatic factors influencing, FB 80:611
mesopelatic
diets of vertically migrating in Hawaiian waters
Benthosema suborbitale, FB 78:630
Bolinichthys longipes, FB 78:629
Bregmaceros japonicus, FB 78:632
Ceratoscopelus warmingi, FB 78:628
Diaphus fragilis, FB 78:632
Diaphys perspicillatus, FB 78:631
Diaphys schmidti, FB 78:630
Diaphys trachops, FB 78:632
Diogenichthys atlanticus, FB 78:630
field collections, FB 78:619
laboratory procedures, FB 78:620
Lampanyctus nobilis, FB 78:623
Lampanyctus steinbecki, FB 78:623
Melamphaes danae, FB 78:632
Notolychnus valdiviae, FB 78:628
Triphoturus nigrescens, FB 78:625
minced
in cooked sausages, MFR 45(7-9):21, 26
production costs, MFR 45(7-9):22
per capita annual utilization and consumption, MFR 42(2):16
new to eastern Bering Sea
Kali indica, FB 79:353
Laemonema longipes, FB 79:354
Macropinna microstoma, FB 79:354
Percis japonicus, FB 79:353
nonsalmonid
passage through Denil fishway lengths, MFR 47(1):83
North Pacific
myxosporidia, TR 25
nutrient requirements, qualitative and quantitative
amino acid availability, FB 80:659
Fish (continued)
nutrient requirements (continued)
ascorbic acid, FB 80:669
biotin, FB 80:672
calcium, FB 80:676
calcium-to-phosphorus ratios, FB 80:676
carbohydrates, FB 80:665
choline, FB 80:671
copper, FB 80:677
cyanocobalamin, FB 80:671
fatty acids, essential, FB 80:663
folic acid, FB 80:671
inositol, FB 80:672
iodine, FB 80:678
iron, FB 80:677
lysine, FB 80:660
magnesium, FB 80:676
manganese, FB 80:677
methionine, FB 80:660
niacin, FB 80:668
optimal dietary lipid concentrations and protein-to-energy ratios, FB 80:661
pantothenic acid, FB 80:668
phosphorus, FB 80:676
protein, FB 80:656
pyridoxine, FB 80:667
riboflavin, FB 80:667
selenium, FB 80:678
thiamine, FB 80:666
tryptophan, FB 80:661
vitamin A, FB 80:673
vitamin D, FB 80:673
vitamin E, FB 80:674
vitamin K, FB 80:675
zinc, FB 80:677
oceanic pelagic
bioprofiles sampling manual, TM SEFC-55
bioprofiles sampling manual, 1982-83, TM SEFC-103
Pacific
parasitic copepods, TR 25
Pacific Ocean, northeastern
chlorinated hydrocarbon levels, MFR 43(1):1
pelagic
Bay of Fundy-Gulf of Maine, FB 82:131
biological data, North Carolina charterboat landings, 1978, TM SEFC-7
data analysis, FB 81:570
feeding behavior, FB 81:585
foregut content, FB 81:572, 584
lampara net, FB 81:570
location comparison, FB 81:572
net-hauls, FB 81:570
patterns, FB 81:573
San Onofre-Oceanside, California, FB 81:570
small vessel tracking technique, MFR 47(4):35
species composition, FB 81:572, 576
pen-reared salmon in San Francisco Bay, MFR 47(4):26
pleuronectiform food habits, Atlantic Ocean, S 749
polychlorinated biphenyls, Chesapeake Bay
effects on humans, MFR 42(2):22
PCB control, MFR 42(2):22

Fish (continued)
postlarval
retention of three taxa in tidal estuary, Cape Fear River, North Carolina
behavior, diel, FB 78:423
length-frequency distributions, FB 78:429
tide response, FB 78:426
products
import regulations, Japan, TM F/SWR-003
recreational
occurrence of life stages in estuaries, Gulf of Mexico, TM SEFC-45
recruitment studies, large marine ecosystems, MFR 45(10-12):1
Red Sea
proximate chemical composition, MFR 46(3):71
seasonal variations, MFR 46(3):74
reef
black sea bass, FB 81:681
distributions off North and South Carolina, by headboat catches, TM SEFC-115
groupers, FB 81:679
growth parameters, FB 81:681
grunt, FB 81:681
management problems, potential, FB 81:680
mortality parameters, FB 81:681, 683, 689, 694
planktonic processes affecting establishment, TM SEFC-34
planktonic processes affecting maintenance, TM SEFC-34
planktonic processes affecting stocks, TM SEFC-34
porgies, FB 81:679
recreationally caught, Panama City, Florida, 1978-79, TM SEFC-61
snappers, FB 81:679
South Atlantic Bight, FB 81:679
workshop on biological basis for management, TM SEFC-80
yield per recruit, FB 81:680, 681, 683, 689
Samoan
annotated checklist, S 781
scombrid, FB 81:227
seagrass
distribution, FB 81:837
macrophyte biomass, FB 81:837
manatee grass, *Sygringodium filiforme*, FB 81:837
pinfish, FB 81:838
seagrass meadows, FB 81:837
shoal grass, *Halodule wrightii*, FB 81:838
species composition, FB 81:837
turtle grass, *Thalassea testudium*, FB 81:837
seasonality of, occupying surf zone habitat in Gulf of Mexico
annual and seasonal occurrence, FB 78:913
daily activity patterns, FB 78:916
factors affecting occurrence, FB 78:920
seasonal and annual variations, FB 78:918
species composition, FB 78:918
South Carolina
estuarine, S 757
species
data for ecosystem simulation I, TM F/NWC-29
stock fluctuations
consequences, TM F/NWC-27
management, TM F/NWC-27
stomatoid, feeding habits in Hawaiian waters
Astronesthidae, FB 80:294
Fish (continued)
stomatoid, feeding habits (continued)
Chauliodontidae, FB 80:294
Gonostomatidae, FB 80:292
Idiacanthidae, FB 80:296
Malacosteidae, FB 80:298
Melanostomiatidae, FB 80:296
Photichthyidae, FB 80:291
Sternoptychidae, FB 80:292
Texas coastal
croaker, FB 81:643
cutlassfish, FB 81:643
food habits, FB 81:643
porgy, FB 81:643
seatrout, FB 81:643
stomach contents, FB 81:643
trawl caught
biomass, FB 81:540
day-night trawl tows, FB 81:538
occurrence of *Penaeus* spp. in stomachs, northwestern Gulf of Mexico, TM SEFC-87
relative abundance, FB 81:541
South Atlantic Bight, FB 81:537
species composition, FB 81:541
sponge-coral habitat, FB 81:537, 543
trimethylamine
improved method to analyze, and interference of ammonia and dimethylamine, FB 78:465
U.S.S.R.
parasite studies, TR 25
Whale Ridge
parasitic fauna, TR 25
Fish, demersal—see also Groundfish
Bering Sea
Pleuronectid, gadid, cottid resources, S 754
community structure
eastern Bering Sea, 1978-81, TM F/NWC-35
eastern Bering Sea, 1971-77, TM F/NWC-40
Pacific coast assemblages
preliminary analysis, MFR 42(3-4):83
resources
Norton Sound, 1979, TM F/NWC-89
Fish, larval
croaker, Atlantic, FB 81:896
distribution and abundance in the northeastern U.S., FB 83:313
Georges Bank
distribution, survival, and transport, TM F/NEC-24
growth in relation to trophodynamics of cod and haddock, TM F/NEC-36
menhaden, gulf, FB 81:895
Fish aggregating devices (FAD)
anchored in Hawaiian waters
anchor and mooring method, MFR 43(9):2
buoy benefits, MFR 43(9):13
buoy construction, MFR 43(9):1
buoy design, MFR 43(9):11
buoy location, MFR 43(9):3
buoy performance, MFR 43(9):4
influence on fishing routine, MFR 43(9):12
monitoring buoys and catches, MFR 43(9):3
monitoring trips, MFR 43(9):5
multiple schools at buoys, MFR 43(9):11

Fish aggregating devices (FAD) (continued)
anchored in Hawaiian waters (continued)
pole-and-line fishing, MFR 43(9):6
troll fishing, MFR 43(9):8
tuna aggregations around buoys, MFR 43(9):11
underwater observation, MFR 43(9):10
Papua New Guinea, MFR 45(10-12):50
structured flotsam, TM SWFC-22
Fish assemblage
Bay of Fundy-Gulf of Maine, FB 82:121
Middle Atlantic Bight, FB 82:295
San Onofre, Calif., FB 82:37
York River marshes, FB 82:458
Fish assemblage, demersal
estimates of marine populations, FB 83:508
temporal and spatial patterns, FB 83:507
Fish assemblage, littoral
seasonal abundance, composition, and productivity in upper Newport Bay, California
abiotic factors, influence, FB 80:786
catch, total, FB 80:774
cluster analysis and canonical correlation, FB 80:773
composition, diversity, and seasonal dynamics, FB 80:784
cumulative species curve, FB 80:773, 774
diversity, FB 80:773
production estimation, FB 80:771
productivity, FB 80:779
relationship of abiotic factors to fish abundance and distribution, FB 80:783
sampling procedures, FB 80:771
seasonal abundance and diversity, FB 80:777
species associations, FB 80:777, 785
species densities and productivity, FB 80:785
study area, FB 80:770
temperature and salinity patterns, FB 80:773
Fish assemblage, reef
annual variability in kelp forest off Santa Barbara, California
cinetransects, FB 78:363
sampling, FB 78:372
spatial differences, FB 78:365
statistical analyses, FB 78:364
study sites, FB 78:362
yearly differences, FB 78:369, 373
Fish bioenergetics
menhaden, Atlantic, FB 81:177
Fish Block Technical Working Group
standards for minced fish in mixed fish blocks, MFR 46(2): 38
Fish blocks
composition, MFR 46(2):36, MFR 46(3):76
determination, MFR 46(2):36, MFR 46(3):77
minced fish, amount, MFR 46(3):76
recommendations, MFR 46(2):39, MFR 46(3):77
Fish cleaning machine
evaluation of a prototype
cleaning efficiency, MFR 42(1):40
operation under commercial conditions, MFR 42(1):39
problems encountered, MFR 42(1):40
processing in commercial plant, MFR 42(1):38
products, MFR 42(1):41
yield recovery, MFR 42(1):40
Fish disease, PEN, FB 82:542
Fish ecology
parasitic indicators, TR 25
Fish farming, Norwegian
salmon, MFR 46(3):44
trout, MFR 46(3):44
Fish fillets
recommended procedure for assuring quality at point of consumption
consumer, MFR 44(1):14
monitoring need, MFR 44(1):14
processor, MFR 44(1):12
rationale, MFR 44(1):9
retail outlet, MFR 44(1):12
vessel, MFR 44(1):10
warehouse, MFR 44(1):12
Fish forage communities
habitat parameters in Faka Union Bay, Florida, TM SEFC-162
Fish hybrids
literature citations 1971-80, S 750
Fish interaction
Bay of Fundy/Passamaquoddy Bay, FB 82:121
bird predators, FB 81:427
char, Arctic, FB 82:401
Continental shelf, FB 82:295
copepods, FB 81:227
dolphin, Fraser's, FB 81:283
fish, pelagic, FB 81:576
fish, seagrass, FB 81:837
groundfish, FB 82:296
kelp, FB 82:50
mackerel, Spanish, FB 82:620
Middle Atlantic Bight, FB 82:295
open shelf, FB 81:541
pollock, walleye, FB 81:639
reef, FB 81:541
salmon, sockeye, FB 82:401
salmonids and nonsalmonids, FB 81:815
sea lion predators, FB 82:67
seals, FB 81:121
shrimp, brown, FB 81:396
South Atlantic Bight, FB 81:537
species estimates, FB 81:375
splittail, FB 81:647
sponge-coral habitat, FB 81:541
walleye, FB 82:411
whiting, Pacific, FB 81:632
Fish larvae—see Larvae
Fish meal
demand model for United States
functional form, FB 78:270
lagged response mechanisms, FB 78:271
simultaneity bias, FB 78:270
specification, FB 78:268
statistical procedures, FB 78:272
Fish motion
effects of swimming path curvature on energetics, FB 79:171
Fish muscle
trimethylamine estimation, FB 80:157
Fish oil
dietary
consumption, MFR 46(2):62
docosahexaenoic acid (DHA), MFR 46(2):61

Fish oil (continued)
dietary (continued)
eicosapentaenoic acid (EPA), MFR 46(2):61
heart attack risk, effects on, MFR 46(2):62
high-, low-oil fishes, MFR 46(2):62
Omega-3 long-chain fatty acid, MFR 46(2):62
selected bibliography, TM SEFC-166
Fish oil concentrates, MFR 46(2):61
Fish poisoning—see Ciguatera fish poisoning
Fish poisoning, bacterial
scombroid and non-scombroid fishes, MFR 45(4-6):35
Fish populations
biomass assessments, TR 36
diel and seasonal variation in abundance and diversity of shallow-water, in Morrow Bay, California, FB 78:759
estimating spawning frequency, TR 36
multistage recruitment process for laboratory
data collection, FB 78:558
experimental design, FB 78:559
experimental environments, FB 78:557
feeding, FB 78:558
marking, FB 78:558
mathematical model, development, FB 78:569
phase I, FB 78:561
phase II, FB 78:566
sampling requirements for survey, TR 36
Fish protein
acylation: effect of reaction conditions on products
acylation extent, MFR 43(3):15
acylhydroxamates, MFR 43(3):15
amino group acetylation, MFR 43(3):16
fish protein acylation, MFR 43(3):14
hydroxyl group acetylation, MFR 43(3):17
inhibitory effect of sodium sulfite, MFR 43(3):17
myofibrillar protein preparation, MFR 43(3):14
O-acyl tyrosine analysis, MFR 43(3):15
protein content, MFR 43(3):15
S-acyl cysteine analysis, MFR 43(3):15
secondary groups acetylation, MFR 43(3):16
sulfhydryl group acetylation, MFR 43(3):17
tyrosyl group acetylation, MFR 43(3):17
Fish recruitment studies—see Large Marine Ecosystems
Fish sampling
U.S. observers on foreign fishing vessels, 1977-78
Aleutian Island region, MFR 43(5):1
Bering Sea, eastern, MFR 43(5):1
crab, king, MFR 43(5):13
crab, snow, MFR 43(5):12
estimates of foreign groundfish catches, MFR 43(5):7
fishery under FCMA, MFR 43(5):2
flatfish catch, MFR 43(5):17
halibut, Pacific, MFR 43(5):9
historical groundfish catches, MFR 43(5):4
history, MFR 43(5):2, 5
observer coverage, MFR 43(5):6
regulation, MFR 43(5):4
rockfish catch, MFR 43(5):17
salmon, Pacific, MFR 43(5):15
sampling procedures, MFR 43(5):5
Fish schools
stochastic model for size of
fitting model to data, FB 79:318
Fish schools (continued)
stochastic model for size of (continued)
observations, FB 79:316
sensitivity analysis, FB 79:319
Fish spoilage
honeycombing and collagen breakdown, skipjack tuna, MFR 46(2):40
Fish sticks, with textured soy products (TSP)
amino acid composition, MFR 45(7-9):35, 36
flesh-TSP ratio, MFR 45(7-9):37
nutritive value, MFR 45(7-9):35
preparation, MFR 45(7-9):34, 35
protein efficiency ratios (PER), MFR 45(7-9):35
proximate composition, MFR 45(7-9):35, 36
sensory evaluations, MFR 45(7-9):36
Fisheries, commercial
Bering Sea, central
Navarin Basin, TM F/AKR-2
Bering Sea, eastern
potential for yellowfin sole fishery, TM F/NWC-33
harvest sector
economic health, TM F/NEC-40
mackerel
fishery economic data analysis, TM SEFC-101
Fisheries, eastern Caribbean
effects of ciguatera fish poisoning, MFR 46(1):13
Fisheries, foreign
and joint venture
off California, Oregon, and Washington, TM F/NWR-15
Gulf of Alaska, 1977-78
crab, king, MFR 43(5):31
crab, snow, MFR 43(5):31
flatfish catches, MFR 43(5):33
foreign fisheries observer program, MFR 43(5):24
groundfish, MFR 43(5):20
groundfish catch estimates, MFR 43(5):25
halibut, Pacific, MFR 43(5):27
historical groundfish catches, MFR 43(5):23
regulation, MFR 43(5):23
rockfish catches, MFR 43(5):32
salmon, Pacific, MFR 43(5):29
off Washington, Oregon, and California, 1977-78
halibut, Pacific, MFR 43(5):42
observer sampling results, MFR 43(5):39
regulations, MFR 43(5):37
salmon, MFR 43(5):39
species composition and estimated catch of rockfish and flatfish, MFR 43(5):42
trawl fishery, MFR 43(5):36
U.S. observer program, MFR 43(5):38
Fisheries, invertebrate
report on available economic data (except shrimp), TM SEFC-88
Fisheries, mackerel
economic data analysis, TM SEFC-101
Fisheries, management
maximum sustained yield, TM SEFC-17
optimum yield, TM SEFC-17
Fisheries, marine—see Delaware
Fisheries, recreational
evaluation using the Delphi Technique, TM SEFC-19
length-frequency distributions
reef fishes, Panama City, Florida, 1978-79, TM SEFC-61

Fisheries, recreational (continued)
paying-passenger of Florida gulf coast and keys
activity centers, MFR 43(8):13
boat distribution, MFR 43(8):13
charter- and head-boat problems, MFR 43(8):17
guide boat problems, MFR 43(8):18
guide boats, MFR 43(8):16
inshore-offshore charters, MFR 43(8):16
list compilation, MFR 43(8):12
offshore charter, MFR 43(8):15
offshore head boats, MFR 43(8):17
operator types, MFR 43(8):13
percent returns and estimates of total activity, MFR 43(8):14
questionnaire distribution, MFR 43(8):13
species dependence and percent fishing effort, MFR 43(8):14
surveys, 1977-78
billfish and shark, TM SEFC-5
Fisheries Conservation and Management Act
fishing, marine recreational
social considerations, MFR 42(12):12
Fisheries enforcement, marine
preliminary method for estimating requirements
area enforcement estimates, MFR 42(11):25
at-sea enforcement, MFR 42(11):20
investigations, MFR 42(11):22
multiple fishery estimates, MFR 42(11):23
regulatory mechanism, MFR 42(11):19
regulatory modes, MFR 42(11):19
shore-side enforcement, MFR 42(11):22
single fishery estimates, MFR 42(11):23
support, MFR 42(11):23
Fisheries information
efficient storage and retrieval
standardized data condensation, TM SEFC-10
Fisheries production
economics of, TM F/NWC-60
Fishery
albacore, North Pacific
long range planning workshop, 1983, TM SWFC-37
Atlantic menhaden
closed corridor option, biological implications, TM SEFC-165
bass
economic evaluation, FB 81:168, 170, 171
St. Lawrence River-eastern Lake Ontario, FB 81:168
Bering Sea
procedure for assessing pollock abundance, S 743
bottom, longline descriptive survey
Gulf of Mexico, TM SEFC-122
business turnover in Texas charterboat industry 1975-80, MFR 47(1):43
charter boat, N.C. biological and economic analysis
bottom fishing for reef fishes, MFR 43(8):6
charter boat activities, MFR 43(8):3
estuary fishing, MFR 43(8):6
fleet profitability, MFR 43(8):6
landings, MFR 43(8):3
trolling inshore, MFR 43(8):3
trolling offshore, MFR 43(8):5
Chinook salmon
enhancement in Alaska, TR 27
Fishery (continued)
commercial
contribution of pen-reared salmon in San Francisco Bay, MFR 47(4):26
sharks, pelagic, commercial catch, TR 31
whiting, Pacific, in Canadian zone, MFR 47(2):80
deep-sea handline
multispecies analysis of commercial, in Hawaii
aggregation effects, FB 80:444
clustering, FB 80:439
data sources and fishery description, FB 80:436
fishing effort, FB 80:438, 440, 443
stock production analyses, FB 80:441
dogfish, spiny
processing and handling, MFR 47(1):48
eastern Pacific shrimp, FB 83:1
finfish culture in Kochi prefecture, Japan, TR 10
gill net
impacts on non-target species, TM F/SWR-012
selectivity on Spanish mackerel, king mackerel, and bluefish, TM SEFC-119
Spanish mackerel and catches of king mackerel and cero, TM SEFC-138
squid taken in surface gill nets, North Pacific, TM F/NWC-28
Grays Harbor, FB 82:469
Gulf of Mexico
juvenile brown shrimp as abundance predictors, FB 83:677
lobster, spiny
predation of released trapped lobsters, MFR 47(1):27
longline
descriptive bottom survey, Gulf of Mexico, TM SEFC-122
distribution of groundfish catches, eastern Bering Sea, 1977-80, TM F/NWC-31
Japanese, 1979 and 1980 catch rates, Atlantic and Gulf of Mexico, TM SEFC-125
Japanese, 1980 observer data and Japanese report data, TM SEFC-125
Japanese, Pacific cod and sablefish catches, Gulf of Alaska, 1978-83, TM F/NWC-82
Menhaden
closed corridor option, biological implications, TM SEFC-165
Menhaden, Atlantic
sampling statistics, TR 9
New England groundfishery
otter trawl size, S 771
ocean troll
genetic stock identification methods, MFR 47(1):1
Puget Sound commercial fishery for Pacific whiting, MFR 47(2):33
purse seine
estimates of catch, Atlantic Menhaden, TR 31
recreational
bass fishery, FB 81:168
commercial passenger fishing industry for albacore, MFR 47(3):48
contribution of pen-reared salmon in San Francisco Bay, MFR 47(4):26
croaker, white, FB 82:196
pelagic sharks, estimates of catch, TR 31
reef management
biological basis for, TM SEFC-80
workshop proceedings, TM SEFC-80

Fishery (continued)
regulatory
instrument constraints, TM F/NWC-90
sand lance
keeping quality of fresh and frozen Ammodytes sp., MFR 47(1):78
sea urchin, red
harvesting, MFR 47(3):9
marketing methods, MFR 47(3):17
processing, MFR 47(3):12
scarred fish and high seas fisheries, MFR 47(1):39
shrimp, pink, in Tortugas Sanctuary off south Florida, MFR 47(4):11
tuna
parasite use for stock management, FB 83:343
reducing porpoise mortality, TR 13
Walleye pollock
procedure for assessing abundance, S 743
western Australian
lobster, western rock, FB 83:567
whiting, Pacific
condition, MFR 47(2):95
historical review of the fishery, MFR 47(2):39
history, MFR 47(2):95
management, MFR 47(2):95
worm
bloodworms and sandworms of Maine
distribution, S 767
habitat, S 767
history of fishery, S 767
Fishery closures
Texas
impacts on brown shrimp yields, TM SEFC-141
impacts on brown shrimp yields, 1982 and 1983, TM SEFC-142
Fishery Conservation Zone (FCZ)
fisheries management and charterboat industry, MFR 46(3):48
foreign baitboats
catch and effort estimates, 1965-77, TM SWFC-2
foreign tuna longliners
catch and effort estimates, TM SWFC-2
impact of closure
on brown shrimp yields, TM SEFC-141
on brown shrimp yields, 1982 and 1983, TM SEFC-142
Fishery data
directory of collection activities
southeast U.S., TM SEFC-16
Fishery development
Columbia River
annual report, 1980, TM F/NWR-1
annual report, 1981, TM F/NWR-4
annual report, 1982, TM F/NWR-6
annual report, 1983, TM F/NWR-9
annual report, 1984, TM F/NWR-13
screening of irrigation diversions, TM F/NWR-12
Fishery economic data
commercial mackerel fisheries analysis, TM SEFC-101
Fishery management
analysis, TM F/NEC-7
anchovy, California northern
biological basis, TM SWFC-1
economic basis, TM SWFC-1
Fishery management (continued)
biological
Mid-Atlantic, TM F/NEC-6
New England, TM F/NEC-6
Columbia River salmonid fishery, MFR 47(1):5
definitions
management units, TM F/NEC-3
economics
and uncertainty, TM F/NWC-47
Mid-Atlantic, TM F/NEC-6
New England, TM F/NEC-6
fish stock fluctuations
consequences, TM F/NWC-27
management, TM F/NWC-27
genetic stock identification, MFR 47(1):1
how to prepare plans, TM SEFC-4
lobster industry, MFR 47(1):27
methodologies, TM F/NEC-7
oceanic salmonid fishery, MFR 47(1):5
overview
Northeast Fishery Management team, TM F/NEC-1
plans
Atlantic demersal finfish, TM F/NEC-2
Northeast Region Action Plan, 1985, TM F/NEC-37
preparation, TM SEFC-4
regulatory instruments
adjusted constraints, TM F/NWC-90
seawater acclimation of Chinook salmon smolts, TR 27
techniques, TM F/NEC-4
workshop on scientific basis for management in penaeid shrimp, TM SEFC-98
Fishery Management Councils
management, large marine ecosystems, MFR 45(10-12):2
New England fishery, MFR 45(1):2
Fishery Management Zone (FMZ), U.S.
establishment of, MFR 45(7-9):21
MARMAP program, MFR 45(10-12):1
Fishery plan
statistics
southeast U.S., TM SEFC-53
Fishery production
lectures on the economics, TM F/NWC-60
Fishery products
"Comparative Edibility Factors", MFR 45(7-9):6
edibility characteristics, MFR 45(7-9):12
edibility profiles, MFR 45(7-9):15
extended fresh storage with modified atmosphere
CO_2-enriched, MFR 44(2):19
hyperbaric storage, MFR 44(2):19
hypobaric storage, MFR 44(2):18
vacuum packaging, MFR 44(2):17
grading program, MFR 45(7-9):6
identification system, MFR 45(7-9):6
nomenclature, system for changing, MFR 45(7-9):9
base terms, MFR 45(7-9):11
factor list, MFR 45(7-9):10
future developments, MFR 45(7-9):19
identification plan, prototype, MFR 45(7-9):12
standardized definition list, MFR 45(7-9):11
nomenclature scheme, MFR 45(7-9):19
potential expansion area, MFR 45(7-9):1
versatility, MFR 45(7-9):2

Fishery research
remote sensing data and management applications, MFR 46(3):1
Fishery resources
Guam
resource review, TM SWFC-33
Mariana Archipelago, MFR 47(4):19
Mariana Islands, northern
resource review, TM SWFC-33
northeastern coastal waters
Atlantic demersal finfish, TM F/NEC-2
status report, 1980, TM F/NEC-5
status report, 1981, TM F/NEC-12
status report, 1982, TM F/NEC-22
status report, 1983, TM F/NEC-29
status report, 1985, TM F/NEC-42
Fishery statistics
shrimp, pink, in Tortugas sanctuary off south Florida
catch and effort, MFR 47(4):12
fishing effort, MFR 47(4):14
landing, MFR 47(4):12, 13
relative abundance, MFR 47(4):14, 15
size, MFR 47(4):16
yield estimates from Mariana Archipelago, MFR 47(4):20
Fishery status, conditional
solution to overcapitalization
capacity, MFR 43(7):22
conditional fishery, MFR 43(7):20
effect of conditional fishery declaration, MFR 43(7):23
financial conditions, MFR 43(7):23
policy implications, MFR 43(7):23
vessels and effort, MFR 43(7):21
Fishery transportation
Columbia River
fiscal year 1984, TM F/NWR-14
transport operations, annual report 1981, TM F/NWR-2
transport operations, annual report 1982, TM F/NWR-5
transport operations, annual report 1983, TM F/NWR-7
transport operations, annual report 1984, TM F/NWR-11
Snake River
transport operations, annual report 1981, TM F/NWR-2
transport operations, annual report 1982, TM F/NWR-5
transport operations, annual report 1983, TM F/NWR-7
transport operations, annual report 1984, TM F/NWR-11
Fishery-dynamics
using Box-Jenkins models to forecast
data and underlying model, FB 78:888
estimation and checking, FB 78:891
forecasts, FB 78:893
model identification, FB 78:890
transfer function models, FB 78:892
Fishing
big game
northern Gulf of Mexico, 1979, TM SEFC-23
northern Gulf of Mexico, 1980, TM SEFC-77
northern Gulf of Mexico, 1981, TM SEFC-90
commercial facilities, potential for industry expansion
Santa Barbara County, California, TM F/SWR-001
Ventura County, California, F/SWR-001
commercial vessels
survey of new west coast deliveries, TM F/SWR-002
foreign
off California, Oregon, and Washington , TM F/NWR-15
Fishing (continued)
Japanese longline
comparing observer data and Japanese quarterly reports, 1979 Atlantic Ocean and Gulf of Mexico, TM SEFC-64
joint venture
California, Oregon, and Washington, 1977-84, TM F/NWR-15
longline
incidental capture of sharks, TR 31
marine recreational
social consideratons under Fisheries Conservation and Management Act, MFR 42(12):12
recreational
charterboat catch and effort from southeastern U.S. waters, MFR 47(3):54
economic valuations, National Marine Fisheries Service guidelines, TM SWFC-32
estimated catches of large sharks, TR 31
sport
temperature effects on sport species in California, S 759
Fishing activity
Japanese longline
comparison between 1979 and 1980 for the Atlantic and Gulf of Mexico, TM SEFC-125
Fishing equipment
albacore fleet
U.S. west coast, TM SWFC-8
Fishing harvest
economic health index for industry's harvest sector, TM F/NEC-40
model
effects on fish biomass, TM F/NWC-41
Fishing industry
economic health
harvest sector, TM F/NEC-40
energy conservation technology
economic analysis, TM F/NWC-39
expansion
Santa Barbara County, California, TM F/SWR-001
Ventura County, California, TM F/SWR-001
Fishing information
Guam and northern Mariana Islands, TM SWFC-40
Fishing methods
albacore fleet
U.S. west coast, TM SWFC-8
Fishing techniques, small boat
Virgin Islands
demonstration of advances, MFR 43(11):11
Fishing vessels, commercial
diesel-powered, Hawaii, MFR 45(7-9):53, 55
sail assisted, Hawaii
cost effectiveness, MFR 45(7-9):50
investment analyses, MFR 45(7-9):52
new construction, MFR 45(7-9):51
sailing, MFR 45(7-9):51
Fishing vessels, foreign
eastern Bering Sea and Aleutian Island region, 1977-78
sampling by U.S. observers aboard, MFR 43(5):1
Fishing zones
used to calculate sea surface areas
coast of northeastern South America, TM SEFC-81
Fishmeal industry, FB 81:367, 369

FISHMO
numerical model computations
fishing mortality, spawning, stress mortality, and biomass growth rate, TM F/NWC-38
Fishways
effect of Denil fishway length on passage of nonsalmonid fishes, MFR 47(1):83
Fjord habitat, FB 82:144
Flabelligerida
life history, distribution, and abundance in the New York Bight, S 766
Flatfish
Bay of Fundy-Gulf of Maine, FB 82:126
Oregon coast
feeding ecology of 0-age at nursery ground, FB 80:555
reef, artificial
effects on resident populations, MFR 44(6-7):45
Flavobacterium
in freshly caught marine fish, MFR 45(4-6):35
Florida
Atlantic coastal waters
occurrence of *Cirolana borealis* in shark hearts, FB 79:376
central eastern coast
observed variation of current, temperature, and wind, TM SEFC-6
crevalle jack food preferences, TM SEFC-134
gag food preferences, TM SEFC-160
Gulf coast and Keys
paying-passenger recreational fisheries, MFR 43(8):12
northwest
possible temperature effects on charter boat catches of king mackerel and other coastal pelagic species, MFR 43(8):21
south
pink shrimp fishery in Tortugas Sanctuary, MFR 47(4):11
stone crab fishery assessment, 1980-81 season, TM SEFC-79
Straits
swordfish, cephalopods in the diet, FB 79:765
west coast
spinner dolphin, observations of mass stranding, FB 78:353
west shelf
cruise 85, FRS *Oregon* II, January 1978, station and catch data, TM SEFC-130
whale, false killer
recurrent mass stranding, FB 78:171
Florida Bay
shrimp, juvenile northern pink
distribution, ecology, and seasonal abundance, TM SEFC-161
turtles, marine
radio tracking juvenile, MFR 43(3):20
Flotsam
as structured fish aggregating device, TM SWFC-22
Flounder
exploited stocks, northeast coast, MFR 45(10-12):18
New England groundfish fishery, MFR 45(1):5
stock recovery trends, MFR 45(10-12):18
U.S. fresh fish industry, MFR 45(1):1
Flounder, fourspot
Atlantic Ocean, N.W.
food habits, S 749
Middle Atlantic Bight
food habits and trophic relationship, S 773
Flounder, gulf
evaluating hard parts for age determination, TM SEFC-132
Flounder, gulfstream
Atlantic Ocean
food habits, S 749
Middle Atlantic Bight
food habits and trophic relationships, S 773
Flounder, smooth
development of larval with redescription of development of winter flounder
distinguishing features, FB 78:900
fin development, FB 78:902
general development, FB 78:900
identification, FB 78:898
laboratory observations, FB 78:899
morphology, FB 78:901
pigmentation, FB 78:903
terminology, FB 78:898
mortalities of larvae exposed to acute thermal shock, FB 79:198
Flounder, southern
evaluating hard parts for age determination, TM SEFC-132
spawning experiments, TR 10
Flounder, starry, FB 81:815
Flounder, summer
age and growth workshop proceedings, 1980, TM F/NEC-11
annotated bibliography, S 752
Atlantic Ocean, N.W.
food habits, S 749
behavior, S 755
distribution, S 755
ecology, S 755
exploitation, S 755
identity, S 755
life history, S 755
New England
tagging movements, S 752
population dynamics, S 755
stock discrimination workshop proceedings, 1983, TM F/NEC-18
Flounder, winter
Atlantic Ocean, N.W.
food habits, S 749
eggs, FB 81:914
Gulf of Maine
trophic relationships, FB 79:775
larvae, FB 81:914
Narragansett Bay, FB 81:914
nuclear generator effects, FB 81:915
redescription of development, FB 78:897
Flounder, witch
Atlantic Ocean, N.W.
food habits, S 749
Flounder, yellowtail
Atlantic Ocean, N.W.
food habits, S 749
development, FB 81:344, 351, 353
feeding patterns, FB 81:16, 18, 20
food of juvenile, FB 79:205
gonosomatic index, FB 81:343
Gulf of Maine
trophic relationships, FB 79:775
Gulf of St. Lawrence to the Chesapeake Bay, FB 81:341
Harris' hematoxylin, FB 81:342

Flounder, yellowtail (continued)
macroscopic structure, FB 81:343
maturity stages, FB 81:343
microscopic appearance, FB 81:347
northeastern United States, FB 81:15
oocytes, FB 81:342
oogenesis, FB 81:344
oogonia, FB 81:351
ovaries, FB 81:344
spawning stock estimates, MFR 45(10-12):21
stock recovery trends, northeastern U.S., MFR 45(10-12):18
stomach contents, FB 81:16
Student-Newman-Keuls, FB 81:342
student's *t*-test, FB 81:343
temperature effects on growth and yolk utilization in yolk-sac larvae, FB 78:731
types I and II of regressing oocytes, FB 81:352
Fluctuations, fish stock
consequences and management, TM F/NWC-27
Flux experiments
Nantucket Shoals, TM F/NEC-23
Follicle histology, FB 82:443
Food and Agriculture Organization (FAO), U.N.
response to NMFS seafood nomenclature system, MFR 45(7-9):17
Food and Drug Administration (FDA), U.S.
hazard levels for histamine in tuna, MFR 45(4-6):42
response to NMFS seafood nomenclature system, MFR 45(7-9):17
seafood identification labeling regulations, MFR 45(7-9):1, 4
Food Drug and Cosmetic Act
food labeling provisions, MFR 45(7-9):1, 4
interpretations of the Act, MFR 45(7-9):6
Food habits
Bering Sea
feeding of northern fur seal, S 779
bibliography
food rations, TM F/NWC-63
blacksmith, FB 82:199, 200
char, Arctic, FB 82:401
coastal fishes, FB 81:396
cod, Arcto-Norwegian, FB 82:152
cod, Arcto-Norwegian, larvae, FB 82:141
cod, Atlantic, FB 81:440
copepods, marine, FB 81:154
crab, horseshoe, FB 82:383, 387
croaker, FB 81:795
cunner, FB 81:426
diet effects on laboratory culture of *P. :dulus platyceros*, TM F/NWC-68
dolphin, Fraser's, FB 81:283
fish
North Pacific species, TM F/NWC-54
northwest Atlantic species, TM F/NWC-28
fish, pelagic, FB 81:581
fish, Texas coastal, FB 81:643
flounder, yellowtail, FB 81:15
food requirements of shelf edge cetaceans in the northeastern U.S., MFR 47(1):15
forage sites of humpback whales, TM F/NWC-66
hake, silver, FB 81:440, FB 82:21
herring, gold spot, FB 81:590
Food habits (continued)
importance of fish food habits data, MFR 47(1):9
lamprey, river, FB 81:165
marsh habitat, FB 82:455
Middle Atlantic Bight
resident and seasonal fishes, S 773
nekton, FB 82:455, 460
nonsalmonids, FB 81:815
Pacific Ocean
feeding of northern fur seal, S 779
pollock, walleye, FB 81:637
quahog, ocean, FB 82:272
queenfish, FB 83:171
ribbonfish, FB 81:161
rockfish, FB 82:269, FB 83:531
salmon, Pacific, FB 82:391
sea lions, FB 82:67
seal, harbor, FB 81:291
seal, spotted, TR 12
sharks, sandbar, FB 83:395
shrimp, FB 81:795
shrimp, brown, FB 82:325
shrimp, penaeid, FB 82:717
shrimp, rock, FB 82:716
splittail, FB 81:651
spot, FB 81:795
tomtate, FB 83:461
tuna, skipjack, FB 83:379
walleye, FB 82:411
walrus, FB 81:501
walrus, Pacific, TR 12
whale, gray, FB 81:513
whiting, Pacific, FB 81:629, MFR 47(2):13, 14, 16, 32
Food preferences
bluefish
U.S. south Atlantic and Gulf of Mexico, TM SEFC-150
gag
North Carolina and three areas of Florida, TM SEFC-160
Food rations
for fish
bibliography, TM F/NWC-63
Forage communities, fish
habitat parameters in Faka Union Bay, Florida, TM SEFC-162
Forage sites
identification of humpback whales, Alaska, TM F/NWC-66
Foraminifera, benthic—see also Protozoa
key to species, U.S., N.E., C 439
marine flora and fauna of the NE U.S., C 439
Foreign fishing vessels, N.E. Pacific
gear used, MFR 45(7-9):48
marine mammals caught, 1978-81, MFR 45(7-9):45
Frederick Sound, Alaska
humpback whale studies
forage site identification and hydroacoustic surveys, TM F/NWC-66
Freeport, Texas
Bryan Mound, brine disposal site
shrimp and redfish studies, 1979-81, TM SEFC-65 to SEFC-70
French Frigate Shoals, Hawaii
Hawaiian monk seal observations, 1980, TM SWFC-50
sea turtles, green
recovery efforts, TM SWFC-36

French Guiana
offshore shrimp fishery harvest, U.S., 1978-79, MFR 45(4-6):1
Fundulus heteroclitus—see Mummichog
FV *Typhoon*, FB 81:434

G

Gadidae
ichthyoplankton off Alaska, TR 20
Gadids
Bering Sea, demersal fish resources, S 754
Gadids, marine
Alaska, northern
trophic importance of, and their body-otolith size relationships, FB 79:187
Gadoids
Bay of Fundy-Gulf of Maine, FB 82:129
Gadus macrocephalus—see Cod, Pacific
Gadus morhua—see Cod, Arcto-Norwegian; Cod, Atlantic
Gag
food of in North Carolina and three areas of Florida, TM SEFC-160
Gallucci and Quinn parameter, FB 81:75, 78
Galveston Bay, west Texas
shrimp, bait
potential disease-causing organisms, TM SEFC-169
Galveston Island, Texas, FB 82:326
Gambierdiscus toxicus—see Ciguatera fish poisoning
Gamefish, oceanic
investigations, 1978-80, TM SEFC-85
statistical results of collected billfish data, 1972-81, TM SEFC-106
Gammaridean amphipods
Ampelisca eschrichti, MFR 46(4):9
Ampelisca macrocephala, MFR 46(4):9
Ampelisca nugax, MFR 46(4):9
Nototropis brueggeni, MFR 46(4):9
Nototropis ekmani, MFR 46(4):9
Pontoporeia affinis, MFR 46(4):9
Pontoporeia femorata, MFR 46(4):9
Gasoline
Block Island Sound
spill from the barge *Ocean 250*, S 751
Gasterosteus aculeatus—see Stickleback, threespine
Gastric evacuation rate
estimation method, FB 81:451
Gastroenteritis
hard clam associated outbreaks
New York, May-September, 1982, TM SEFC-121
Gastropoda
life history, distribution, and abundance in New York Bight, S 766
Gear
cod end liners, FB 81:550
high-rise roller trawl nets, FB 81:550
hook end line, FB 81:547
otter trawl, FB 81:543, 550
trawl, FB 81:550
Yankee otter trawl net, FB 81:538, 547, 550
Genetic studies
lobster, spiny, FB 82:693
marlin, Pacific blue, FB 81:85
Genetic studies (continued)
salmon, Pacific, MFR 47(1):1
salmonids, TR 27
snapper, deepwater, FB 82:703
sole, yellowfin, FB 81:667
Genyonemus lineatus—see Croaker, white
Georges Bank
Grammaridean Amphipoda
distribution, S 746
historical catch data, 1904-1982, TM F/NEC-39
hydrographic observations, TM F/NEC-38
larval fish
distribution, survival, and transport, TM F/NEC-24
growth and survival in relation to trophodynamics of cod and haddock, TM F/NEC-36
nutrient environment in 1979, TR 32
plankton observations, TM F/NEC-38
satellite infrared imagery, TM F/NEC-38
sea scallop, Atlantic
movement of tagged, MFR 43(4):19
surface waters
residence time and residual drift, TM F/NEC-24
Georgia, Strait of
herring fishery
case history of timely management aided by hydroacoustic surveys, FB 80:381
Geronimo research cruise
data and publications, TM SEFC-60
Geryon quinquedens—see Crab, deep-sea red
Gill nets
salmon
mortality of seabirds in high-seas, FB 79:800
Ginglymostoma cirratum—see Shark, nurse
Glacier Bay, Alaska
humpback whale studies
forage site identification and hydroacoustic surveys, TM F/NWC-66
Globicephala macrorhynchus—see Whales, Pacific pilot
Glycera dibranchiata—see Bloodworms
Glyptocephalus cynoglossus—see Flounder, witch
Gobiid fishes
ecological comparison and life history, TM SEFC-15
Gonad histological analyses
tuna, bigeye
northwest Atlantic and Gulf of Mexico, late summer-early winter collections, TM SWFC-14
tuna, yellowfin
northwest Atlantic and Gulf of Mexico, late summer-early winter collections, TM SWFC-14
Gonatus onyx
identification, TR 17
Gonyaulax polyedra
correlated with anchovy productivity, MFR 45(10-12):11
Goosefish
Middle Atlantic Bight Outer Continental Shelf
food habits and trophic relationships, S 773
Goussia caseosa
key to species, TR 11
taxonomy, TR 11
Goussia degiustii
key to species, TR 11
taxonomy, TR 11

Goussia gadi
key to species, TR 11
taxonomy, TR 11
Grammaridean—see Amphipoda
Graphics
anthology of computer programs, TM SEFC-151
geographic mapping systems for computer graphics, TM SEFC-153
Great Barrier Reef
black marlin
migration, S 772
Great whales
Special Section, MFR 46(4):1
Greenling, kelp
Pacific Ocean, N.E.
development, TR 2
Greenling, masked
Pacific Ocean, N.E.
development, TR 2
Greenling, painted
Pacific Ocean, N.E.
development, TR 2
Greenling, rock
Pacific Ocean, N.E.
development, TR 2
Greenling, white spotted
Pacific Ocean, N.E.
development, TR 2
Greenlings
Pacific Ocean, N.E.
development, TR 2
Grenadier, longnose
Atlantic Ocean, N.W.
food habits, S 740
Grenadier, rock
parasite studies, TR 25
Groundfish
Atlantic continental shelf, FB 82:295
Bering Sea, eastern
cooperative U.S.-Japan investigation, June-November, 1982, TM F/NWC-87
foreign trawl and longline fisheries distribution of catches, 1977-80, TM F/NWC-31
bottom trawl survey
eastern Bering Sea, 1978, TM F/NWC-55
Pacific west coast, 1983, TM F/NWC-70
California
economic status, 1983, TM F/SWR-004
economic feasibility of domestic harvest from western Alaska waters
comparison of fishing strategies, FB 79:309
comparison of vessel types, FB 79:308
cost derivations and sources of estimates, FB 79:313
delivering at sea versus delivering to port, FB 79:307
economic model, FB 79:304
fishing strategy, FB 79:307
fuel price, FB 79:307
processor location and mode of operation, FB 79:306
sensitivity to changes in fuel price, FB 79:309
vessel types, FB 79:306
economic status
California, Oregon, and Washington, TM F/SWR-010
Groundfish (continued)
fishery harvest
east Bering Sea, 1964-80, TM F/NWC-14
fishery resources
Aleutian Islands, 1982, TM F/NWC-42
eastern Bering Sea, 1982, TM F/NWC-42
eastern Bering Sea, 1984, TM F/NWC-83
Gulf of Alaska, 1984, TM F/NWC-80
joint U.S.-Japan investigations, east Bering Sea, TM F/NWC-87
food of juvenile, FB 79:200
held in experimental refrigerated and chilled seawater systems, TM SEFC-92
juveniles
distribution and abundance Gulf of Alaska, 1980-82, TM F/NWC-59, F/NWC-77
monitoring in sponge-coral areas off southeastern United States
habitat observations and description, MFR 42(5):23
oceanographic observations, MFR 42(5):22
television transect studies, MFR 42(5):26
trap catch comparisons, MFR 42(5):30
trawl catch comparisions, MFR 42(5):27
seamount fishery research, central North Pacific, MFR 46(2):11
spawning
Alaskan species and Pacific Coast species, 1975-81, TM F/NWC-44
trawl survey
Aleutian Islands, 1980, TM F/NWC-23
Aleutian Islands, 1980, cooperative U.S.-Japan resource survey, TM F/NWC-93
east Bering Sea and Aleutian Islands, TM F/NWC-53
eastern Bering Sea, 1978, TM F/NWC-55
Gulf of Alaska, 1978, TM F/NWC-13
Gulf of Alaska, 1982, TM F/NWC-52
Groundfish fisheries, Hawaiian Archipelago
commercial exploitation, MFR 46(2):2
preliminary management plan, MFR 46(2):1
species biology
alfonsin, MFR 46(2):15
armorhead, pelagic, MFR 46(2):13
Groundfish industry, Massachusetts
export products, MFR 45(1):6, 9
import products, MFR 45(1):4, 6, 9
landings, 1964-79, MFR 45(1):3, 8
processing
fishery management data, MFR 45(1):1
plants, MFR 45(1):6
sales, MFR 45(1):1
statistical description, MFR 45(1):2
total employment, MFR 45(1):6, 7, 9
value, MFR 45(1):1
products, MFR 45(1):1
revitalization, MFR 45(1):7
Groundfishery
New England
otter trawl size, S 771
Grouper
landings, Florida Gulf coast and Keys charterboat fishery, MFR 45(1):16
resource assessment at the Mariana Archipelago, MFR 47(4):19
seamount fishery research, central North Pacific
Caprodon schlegelii, MFR 46(2):11

Grouper (continued)
seamount fishery research (continued)
Epinephelus quernus, MFR 46(2):11
Plectranthias kelloggi, MFR 46(2):11
Growth
Kemp's ridley sea turtle
released into Gulf of Mexico, TM SEFC-145
larval fish
related to trophodynamics of Georges Bank cod and haddock, TM F/NEC-36
patterns in variability of captive-reared, TM SEFC-164
rates
effect of fishing and spawning strss mortality, TM F/NWC-38
seatrout, sand, TM SEFC-14
seatrout, silver, TM SEFC-14
spot, TM SEFC-14
studies
annotated list of references of the bluefin tuna, TM SEFC-113
summer flounder workshop proceedings, 1980, TM F/NEC-11
white shrimp, temperature effects on, TM SEFC-56
Growth curves
method for comparisons, FB 79:95
Growth lines
bivalve mollusks, MFR 46(2):27
Growth rates
arithmetic/exponential calculation, FB 82:446
clam, soft-shell, FB 81:75
clam transplanting, FB 82:540
cod, Atlantic, FB 81:833
crab, deep-sea red, FB 81:903
crab, Dungeness, FB 82:417
croaker, white, FB 82:183
dolphin, FB 81:906
dolphin, spotted, FB 83:553
drum, banded, FB 82:353
eel, American, FB 82:520
growth increment marking, tetracycline, FB 82:208, 237
haddock, FB 81:833
herring, Atlantic, FB 83:289
herring, gold spot, FB 81:593
herring, Pacific, FB 82:117
Leslie model, FB 82:537
lobster, American, FB 82:242, 243
lobster, rock, FB 83:567
menhaden, Atlantic, FB 81:139, 193
midshipman, plainfin, FB 82:165
population growth rate, FB 82:537, 540
quahog, ocean, FB 82:1, 251
salmon, chinook, FB 82:158, 160
sculpin, longhorn, FB 81:781
sensitivity formulae, FB 82:538
tilefish, FB 81:760
triggerfish, gray, FB 82:488
tuna, bluefin, FB 82:434
weakfish, FB 81:803
Grunion, California
hatching, FB 81:473, 475, 478
Grunts
Atlantic Ocean
biological data, C 448
Grunts, French
recruitment patterns in Tague Bay, Virgin Islands, FB 83:413
Guam
environmental and fishing information summary
climate, TM SWFC-40
historical background, TM SWFC-40
oceanography, TM SWFC-40
submarine topography, TM SWFC-40
resource review
plankton communities and fisheries, TM SWFC-33
Guianas-Brazil
shrimp fishery and related U.S. research, MFR 43(2):9
Guianas-Brazil shrimping grounds
U.S. trawler participation in offshore fisheries, 1978-79, MFR 45(4-6):1
Guides
to collection and identification of presmolt Pacific salmon in Alaska, TM ABFS-2
to consumer risk simulation model, TM SEFC-18
to inshore shrimp data by Texas Parks and Wildlife Department, TM SEFC-140
to sea turtle visceral anatomy, TM SEFC-82
Gulf coast
shrimp landings
relationship between ex-vessel value and size composition of annual, MFR 42(12):28
trends in ex-vessel value and size composition of annual, MFR 42(12):18
Gulf of Alaska
bottomfish resources, TM F/NWC-10
crab, deep-sea king
life history, FB 79:259
fish species data for ecosystem simulation I, TM F/NWC-29
fishery, FB 82:396
foreign fisheries, 1977-78, MFR 43(5):20
groundfish resources
assessment, 1982, TM F/NWC-52
assessment, 1984, TM F/NWC-80
foreign trawl and longline fisheries, 1977-80, TM F/NWC-31
juvenile distribution and abundance, 1980-82, TM F/NWC-59, F/NWC-77
trawl survey, 1978, TM F/NWC-13
Japanese longline catches
Pacific cod and sablefish, 1978-83, TM F/NWC-82
living marine resources assessment, TM F/AKR-5
recent observations of a large eddy
distributions and circulation, MFR 42(6):29
formation, MFR 42(6):30
implications, MFR 42(6):30
surface features, MFR 42(6):30
sea lion, Steller
prey of, FB 79:467
seal, harbor
food of, FB 78:549
stomach contents and feces as indicators of foods, FB 78:797
shellfish resources, TM F/NWC-10
Gulf of California
fishery, FB 82:715
schooling of scalloped hammerhead shark, FB 79:356
Gulf of Carpentaria, Australia
shrimp larvae, penaeid
effect of vertical migration on dispersal, FB 80:541
Gulf of Maine
fish diversity, FB 82:121

Gulf of Maine (continued)
trophic relationships among demersal fishes, FB 79:775
Gulf of Mexico
abundance of
Carangidae, TM SEFC-144
Clupeidae, TM SEFC-144
Engraulidae, TM SEFC-144
Istiophoridae, TM SEFC-144
Lutjanidae, TM SEFC-144
Scombridae, TM SEFC-144
Serranidae Coryphaenidae, TM SEFC-144
Xiphiidae, TM SEFC-144
bibliography on hypoxia and its effects, TR 21
billfishes
analysis of catch and effort data from U.S. recreational fishery, 1971-78, FB 79:49
biological data on the spottail pinfish, TR 19
bluefish
food preferences, TM SEFC-150
bottom longline fishery
descriptive survey, TM SEFC-122
fishery, FB 82:365, 375, 419
fishes
organochlorine residues, FB 78:51
food of the king mackerel, TM SEFC-126
food of the Spanish mackerel, TM SEFC-128
guide to fishes taken in longlining, C 43
ichthyoplankton larval distribution, TM SEFC-144
Japanese longline fishing
comparing observer and quarterly reports, 1979, TM SEFC-64
comparing observer and quarterly reports, 1980, TM SEFC-125
fishing activity and catch rates, 1979 and 1980, TM SEFC-125
Kemp's ridley sea turtle
growth and movement after release, TM SEFC-145
northern
big game fishing, 1979, TM SEFC-23
big game fishing, 1980, TM SEFC-77
big game fishing, 1981, TM SEFC-90
seasonality of fishes occupying surf zone habitat, FB 78:911
Penaeus shrimp abundance and size distributions using samples, 1983 SEAMAP-Texas closure survey, TM SEFC-149
northwestern,
Buccaneer gas and oil field environmental assessments, 1976-80
bacteria, TM SEFC-49
biocides, TM SEFC-51
currents, TM SEFC-50
fishes, TM SEFC-48
hydrocarbons, TM SEFC-47, SEFC-51
macrocrustaceans,TM SEFC-48
particulates, TM SEFC-47
sediments, TM SEFC-47
sulfer, TM SEFC-51
trace metals, TM SEFC-51
volitile hydrocarbons, TM SEFC-47
Buccaneer gas and oil field environmental assessments, 1978-79
bacteria, TM SEFC-38
currents, TM SEFC-40
fate and effects of modeling, TM SEFC-43
fishes, TM SEFC-37
fouling community, TM SEFC-39
hydrocarbons, TM SEFC-41
hydrodynamic modeling, TM SEFC-44
Gulf of Mexico (continued)
northwestern (continued)
Buccaneer gas and oil field, 1976-80 (continued)
hydrography, TM SEFC-40
macrocrustaceans, TM SEFC-37
particulates, TM SEFC-36
sediments, TM SEFC-36
synopsis/data management, TM SEFC-35
trace metals, TM SEFC-42
Penaeus shrimp abundance and size distributions using samples, 1983 SEAMAP-Texas closure survey, TM SEFC-149
Penaeus spp. occurrence in stomachs of trawl-caught fishes, TM SEFC-87
shrimp, brown, seasonal abundance, size distribution, and spawning, TM SEFC-94
survey of resources, TM SEFC-114
shrimp, pink, seasonal abundance, size distribution, and spawning, TM SEFC-94
shrimp, white, seasonal abundance, size distribution, and spawning, TM SEFC-94
northern and northwestern *Penaeus* spp. shrimps
abundance and size distributions, 1982 closure, TM SEFC-109
offshore shrimp fishery
economic status, TM SEFC-99
pollution
survey for organics, TM F/NEC-13
recreational marine fishes
life stages occurring in estuaries, TM SEFC-45
seatrout, silver
spawning, age determination, longevity, and mortality, FB 80:487
shrimp, white
natural and fishing mortality, SEFC-58
shrimp fishery
conditional fishery status as a solution to overcapitalization, MFR 43(7):20
use of Griffin's yield model, FB 78:973
shrimp industry
costs and returns trends, 1971-78, MFR 42(2):1
shrimp production
food web hypothesis, FB 79:737
snapper, red
growth of juvenile, FB 80:644
tuna, bigeye
gonad analyses, late summer-early winter collections, TM SWFC-14
tuna, yellowfin
gonad analyses, late summer-early winter collections, TM SWFC-14
western
epibenthic crustacea abundance and associations, TM SEFC-137
wind data using a scatterometer, September 1978, TM SEFC-107
Guyana
offshore shrimp fishery harvest, U.S., 1978-79, MFR 45(4-6):1
Gymnodinium splendens—see Dinoflagellate

H

Habitat alteration
impact of on sea turtles
southeastern U.S., TM SEFC-117

Habitat conservation
quantification of NMFS efforts in southeast United States
dredging, MFR 44(12):20
filling, MFR 44(12):21
impact of NMFS recommendations, MFR 44(12):21
impounding, MFR 44(12):21
mitigation, MFR 44(12):21
totals, cumulative, MFR 44(12):21
Habitat effects
diel light and temperature, FB 82:168
kingfish, southern, FB 82:430
marshes, FB 82:455
power plant effluents, FB 82:199
seal, harbor, FB 82:495
shrimp, brown, FB 82:325
Habitat enhancement, marine
urban recreational fishing in Washington
design, colonization, and ecosystem development, MFR 44(6-7):33
fish community structure, longterm, MFR 44(6-7):36
program design and methodology, MFR 44(6-7):29
site selection, facility design, and fishery management, MFR 44(6-7):31
Habitat management
economics
decision making, TM F/NWR-10
Habitat parameters
forage fish communities
Faka Union Bay, Florida, TM SEFC-162
Habitats
invertebrates of South Atlantic Bight, TR 18
Haddock
asteriscus, FB 81:830
Atlantic Ocean, N.W.
food habits, S 740
food of juvenile, FB 79:203
Georges Bank, FB 81:827
in relation to larval fish growth and survival, TM F/NEC-36
growth increments, FB 81:829
lapillus, FB 81:830
larval growth, FB 81:830
Massachusetts
groundfish industry, MFR 45(1):1
landings and production, MFR 45(1):5, 7
otoliths, FB 81:828
recruitment studies, MFR 45(10-12):4
Haemulon aurolineatum—see Grunts; see Tomate
Haemulon flavolineatum—see Grunts, French
Haemulon plumieri—see Fish, reef; see Grunts
Hafnia alvei
isolated from scombroid fish poisoning incidents, MFR 45(4-6):35, 38
Hagfishes
Atlantic, western
Eptatretus minor, FB 79:78
Eptatretus multidens, FB 79:80
Eptatretus species A and B, FB 79:76
Eptatretus species C, FB 79:77
Eptatretus springeri, FB 79:74
generic allocation, FB 79:72
species key, FB 79:73
Hake—see also Whiting, Pacific
markets
cured, MFR 42(1):52
export, MFR 42(1):52
fillets and fillet blocks, MFR 42(1):51
headed and gutted, MFR 42(1):51
impedients to development, MFR 42(1):53
industrial, MFR 42(1):52
new product development, MFR 42(1):53
red hake, MFR 42(1):52
silver hake, MFR 42(1):50
white hake, MFR 42(1):53
whiting, fresh, MFR 42(1):51
whiting, Pacific, MFR 42(1):53
names, MFR 42(1):2
South American resource and utilization
Argentina, MFR 42(1):9
Chile, MFR 42(1):9
Peru, MFR 42(1):8
Uruguay, MFR 42(1):10
world utilization
Australia, MFR 42(1):7
Brazil, MFR 42(1):7
foreign trade, MFR 42(1):6
France, MFR 42(1):6
Italy, MFR 42(1):7
Portugal, MFR 42(1):7
potential catches, MFR 42(1):5
products, MFR 42(1):5
Spain, MFR 42(1):6
United States, MFR 42(1):7
West Germany, MFR 42(1):6
world catch, MFR 42(1):4
Zaire, MFR 42(1):7
Hake, longfin
Atlantic Ocean, N.W.
food habits, S 740
Hake, Pacific—see also Whiting, Pacific
early life history
development and growth, FB 80:589
development times, FB 80:591
growth rates, FB 80:591
metabolic rates, FB 80:590, 593
vertical distribution, FB 80:590, 593
Hake products
industry outlook for greater utilization
fillets, MFR 42(1):1
fish sticks and portions, MFR 42(1):1
other forms, MFR 42(1):1
Hake, red
Atlantic Ocean, N.W.
food habits, S 740
domestic utilization, MFR 45(7-9):21
food of juvenile, FB 79:204
Gulf of Maine
trophic relationships, FB 79:775
larvae distribution patterns, MFR 45(10-12):20
Middle Atlantic Bight
food habits and trophic relationships, S 773
suitability for surimi, MFR 46(2):43
surimi production, MFR 46(2):44
utilization, MFR 42(1):32

Hake, silver, FB 81:437
Atlantic Ocean
food habits, S 740
composition of diet, FB 82:24
diet overlap, between other northwest Atlantic finfish
butterfish, FB 80:754
cod, Atlantic, FB 80:754
flounder, fourspot, FB 80:757
flounder, witch, FB 80:756
flounder, yellowtail, FB 80:757
haddock, FB 80:754
hake, red, FB 80:754
hake, spotted, FB 80:754
hake, white, FB 80:754
plaice, American, FB 80:756
pollock, FB 80:754
pout, ocean, FB 80:756
redfish, FB 80:752
sculpin, longhorn, FB 80:752
scup, FB 80:754
skate, little, FB 80:751
domestic utilization, MFR 45(7-9):21
fish blocks
economic feasibility of processing into, MFR 42(1):26
food of juvenile, FB 79:203
geographic feeding distribution, FB 82:24
Middle Atlantic Bight
food habits and trophic relationships, S 773
migration patterns, MFR 45(10-12):20
recruitment studies, MFR 45(10-12):4
stocks and fishery off northeastern United States
current trends by state, MFR 42(1):14
current trends by stock, MFR 42(1):15
historical development, MFR 42(1):13
implications of expanded U.S. fishery, MFR 42(1):19
stock definition, MFR 42(1):12
stock status, MFR 42(1):18
stomach contents, FB 82:23
suitability for surimi, MFR 46(2):43
surimi production, MFR 46(2):44
Hake, spotted
food of juvenile, FB 79:204
Middle Atlantic Bight
food habits and trophic relationships, S 773
Hake, white
Atlantic Ocean, N.W.
food habits, S 740
food of juvenile, FB 79:204
Halibut, Greenland
age and growth, FB 81:600
Canadian northwest Atlantic, FB 81:600
sexual maturity, FB 81:601, 605, 609
Halobates species
distribution and abundance in eastern tropical Pacific
cooccurrence, FB 78:589
temperature effects, FB 78:589
Hanford, Washington
Columbia River
snout dimorphism in white sturgeon, FB 80:158
Harbors
commercial fishing facilities
Santa Barbara County, California, TM F/SWR-001
commercial fishing facility (continued)
Ventura County, California, TM F/SWR-001
fishing industry expansion
Santa Barbara County, California, TM F/SWR-001
Ventura County, California, TM F/SWR-001
Harvesting technology
whiting, Pacific, MFR 47(2):47
Hatchery release, salmon, FB 82:157
Hatchery studies
chinook salmon fishery in Alaska, TR 27
salmon, chinook, TR 27
salmon, chum, TR 27
salmonid tagging and tracking, TR 27
Hawaii
fish
per capita annual utilization and consumption, 1970-77, MFR 42(2):16
fish aggregating devices, anchored, MFR 43(9):1
fishery, deep-sea handline
multispecies analysis, commercial, FB 80:435
fishes, mesopelagic
diets of vertically migrating, FB 78:619
fishes, stomiatoid
feeding habits, FB 80:287
shellfish
per capita annual utilization and consumption, 1970-77, MFR 42(2):16
turtles, green
radio telemetry at breeding colony, MFR 44(5):13
recovery efforts, TM SWFC-36
synopsis of biological data, TM SWFC-7
Hawaiian Archipelago, seamount survey
bottom topography, MFR 46(2):7
sampling gear, MFR 46(2):8
seamounts, MFR 46(2):1
Hawaiian fishery
snapper, pink, FB 82:703
Hawaiian Islands
fishes and shellfishes
chlorinated hydrocarbon levels, MFR 43(1):1
Hawaiian Islands, northwestern
predation on released spiny lobsters, MFR 47(1):27
Headboat catches
to determine reef fish distributions in North and South Carolina, TM SEFC-115
Headstart Project
Kemp's ridley sea turtles
annual report, 1984, TM SEFC-152
Helen Reef
Palau, Western Caroline Islands
tridacnid clam stocks, MFR 42(2):8
Helicolenus maculatus
helminth fauna of, TR 25
Helminth fauna
seal, spotted
subpopulations in Bering Sea, TR 12
Helminth infections
cestode, *Scolex pleuronectis*, FB 81:895
trematode, *Aphanurus* sp., FB 81:895

Helminths
parasitology and pathology of marine organisms of the world ocean, TR 25
taxonomic composition and origin of in the world ocean, TR 25
Hematopoietic necrosis virus
salmon, chinook
susceptibility differences among, TM F/NWC-22
Hemilepidotus zapus—see Lord, longfin Irish
Hemirhamphidae
proximate chemical composition, MFR 46(3):71
Hemitripterus americanus
trophic patterns among larvae in estuary, FB 80:827
Heptacarpus camtschaticus
description
stage I zoeae, FB 79:434
Herklotsichthys quadrimaculatus—see Herring, gold spot
Herring, FB 81:124
tagging with coded-wire microtags
equipment and methods, MFR 44(3):18
field tagging study, MFR 44(3):20
tag recovery, MFR 44(3):20
tag retention, MFR 44(3):19
Herring, Atlantic, FB 82:113
age and growth of larval based on otolith growth increments
growth curve compared with other field studies, FB 80:196
laboratory-reared larvae, FB 80:191
larval growth, FB 80:194
otolith growth, FB 80:192
growth comparison studies, FB 83:289
mortalities of larvae exposed to acute thermal shock, FB 79:198
pressure sensitivity, FB 80:567
Sheepscot River estuary, Maine
growth and age structure of larval, as determined by daily growth increments in otoliths, FB 79:123
stock recovery trends, MFR 45(10-12):18
Herring, Atlantic thread
proximate chemical composition, MFR 46(1):19
Herring, Atlantic and Gulf coastal
proximate chemical composition, MFR 46(1):19
proximate composition analyses
fatty acids, MFR 46(1):20
oil, MFR 46(1):19
protein, MFR 46(1):20
Herring, blueback
diet and spawning in the Chowan River, North Carolina, FB 83:711
effect of TBHQ antioxidant, TM SEFC-75
lipid oxidation during frozen and superchilled storage, TM SEFC-75
offshore distribution along the Atlantic coast
commercial catches, FB 79:481
depth distribution, FB 79:482
seasonal distribution, FB 79:476
Herring, coastal
fatty acids
canning medium, effect of, MFR 45(4-6):47
eicosapentaenoic acid, MFR 45(4-6):45
highly unsaturated (HUFA), MFR 45(4-6):45
polyunsaturated (PUFA), MFR 45(4-6):45
marketability, MFR 45(4-6):45
potential, MFR 45(4-6):45
proximate composition, MFR 45(4-6):45
Herring, coastal (continued)
utilization, MFR 45(4-6):45
yield, Gulf of Mexico, MFR 45(4-6):45
Herring, gold spot
age and growth, FB 81:593, 595
biology, FB 81:590
food habits, FB 81:590
Hawaii, FB 81:587
history, FB 81:589
otoliths, FB 81:588, 593
reproduction, FB 81:591, 595
sagittae, FB 81:588
Herring, middling thread
observations, warm water periods, California, MFR 45(4-6):27
Herring, Pacific, FB 81:815
applications of satellite data for fisheries management, MFR 46(3):5
fishery harvest
cohort analysis of catch data, 1959-81, TM F/NWC-24
east Bering Sea, 1964-80, TM F/NWC-14
growth rate, FB 82:115
larvae, FB 82:113
otoliths, FB 82:113
ring deposition, FB 82:115
Herring, thread
maximum yield estimates for Costa Rica fishery
catch and effort statistics estimation, FB 79:692
management implications, FB 79:701
model evaluation, FB 79:699
unit stock definition, FB 79:691
yield analyses, FB 79:694
proximate chemical composition, MFR 45(4-6):45
Herring, White Sea
trematode infestation, TR 25
Herring fishery
Strait of Georgia, timely management
acoustic survey equipment and methods, FB 80:382
catch records, FB 80:384 1976-79
surveys, FB 80:384-386
spawning ground surveys, FB 80:384
trawling procedures, midwater, FB 80:383
Herring weir entrapment, FB 81:660
Heterocarpus ensifer, FB 81:435
Heterocarpus laevigatus, FB 81:435
Heterocarpus longirostris—see Shrimp, deepwater pandalid
Heterocarpus spp.—see Shrimp
Hexagrammidae
ichthyoplankton off Alaska, TR 20
Hexagrammids—see Greenlings
Hexagrammos decagrammus—see Greenling, kelp
Hexagrammos lagocephalus—see Greenling, rock
Hexagrammos octogrammus—see Greenling, masked
Hexagrammos stelleri—see Greenling, whitespotted
Hippoglossoides platessoides—see Plaice, American
Hippoglossoides sp.—see Flounder
Hippolytidae—see also Shrimp
early zoeal stages
characterization of zoeae of *Spirontocaris* s.s. and related genera, FB 79:438
comparison of zoeal stages with descriptions by other authors, FB 79:435
description, FB 79:422

Histamine
defect levels in tuna, MFR 45(4-6):42
distribution in decomposed fish, MFR 45(4-6):43
formation, MFR 45(4-6):40
equation describing, MFR 45(4-6):41, 42
incubation time-temperature, MFR 45(4-6):41
microbial decarboxylation of free histidine, MFR 45(4-6):40
hazard levels in tuna, MFR 45(4-6):42
identification of isolates using API 20E *Enterobacteriaceae* system, MFR 45(4-6):36, 37
index of microbial decomposition in tuna, MFR 45(4-6):40
nomograph to determine, MFR 45(4-6):40
organisms responsible, MFR 45(4-6):40
production, MFR 45(4-6):37
tuna, skipjack
formation during decomposition at elevated temperatures, MFR 43(10):9
Histidine, free
histamine production, MFR 45(4-6):40
scombroid fish levels, MFR 45(4-6):35
Histioteuthis dofleini
identification, TR 17
Histioteuthis heteropsis
identification, TR 17
Histology
analysis
gonads of bigeye tuna and yellowfin tuna from northwest Atlantic and Gulf of Mexico, late summer-early winter collections, TM SWFC-14
techniques
marine bivalve mollusks, TM F/NEC-25
Histopathology
manual for use in relation to pollutant burdens in striped bass, TM SWFC-46
Historical catch data
Georges Bank, 1904-1982, TM F/NEC-39
Historical trends
dolphin, FB 81:617
El Niño, FB 81:363
herring, gold spot, FB 81:589
subtropical rainfall, FB 81:363
weakfish growth, FB 81:809
Hogchoaker
marsh habitat, FB 82:457
Hogfish
courtship and spawning observations, FB 80:853
egg and larval development, FB 80:858
egg collection and rearing, FB 80:854
spawning behavior, FB 80:855
spawning groups of *L. maximus*, FB 80:855
study site, FB 80:854
time and conditions of spawning, FB 80:855
Homarus americanus—see Lobster, American
Homing experiments
Columbia River
broods of salmon and steelhead trout, 1939-44, TM F/NWC-11
Homing habits—see Migration
Homing studies
salmon, chum, TR 27
Homosassa, Florida
turtles, marine
radio tracking juvenile, MFR 43(3):20
Honeycombing
tuna, skipjack
analysis, MFR 46(2):41
definition, MFR 46(2):40
during decomposition at elevated temperatures, MFR 43(10):9
evaluation, MFR 46(2):40
Hope Basin, Alaska
assessment of living marine resources, TM F/AKR-3
Host-parasite relationship
host size, scombrids, FB 81:227
Hotelling's T2-test, FB 82:101
Hudson River estuary
perch, white
biology, FB 80:599
Human effects—see Habitat effects
Husbandry
Kemp's ridley sea turtles
hatchling to yearling, TM SEFC-158
Hyaloteuthis pelagica
identification, TR 17
Hyas araneus—see Crab, spider
Hybridization
of salmonids
annotated bibliography, TM NWFC-1
Hybrids, fish
literature 1971-80, S 750
Hydrocarbon levels, chlorinated
Pacific Ocean, northeastern
fishes, MFR 43(1):4
Hawaii, MFR 43(1):10
plankton, MFR 43(1):3
sea cucumbers, MFR 43(1):3
shellfishes, MFR 43(1):3
Hydrocarbon residues, chlorinated
survey in menhaden fishery products, MFR 43(3):1
Hydrocarbons
Buccaneer gas and oil field
environmental assessment, TM SEFC-41
milestone report to the Environmental Protection Agency (EPA), TM SEFC-47, TM SEFC-51
Louisiana salt dome brine disposal sites
biochemical survey, 1978-79, TM SEFC-30
petroleum effects of marine organisms, TM F/NWC-67
Hydroelectric dams
tracking studies, lower Columbia River
salmonids and steelhead trout, 1971-77, TM F/NWC-81
Hydrographic information
user's guide to inshore shrimp data collected by Texas Parks and Wildlife Department, 1963-80, TM SEFC-140
Hydrography
Buccaneer gas and oil field
environmental assessment, TM SEFC-40
milestone report to Environmental Protection Agency, TM SEFC-50
Georges Bank, TM F/NEC-38
humpback whale survey, TM F/NWC-66
Nantucket Shoals
flux experimental data, TM F/NEC-23
shipboard observations, TM F/NEC-38
Hydrolagus colliei—see Ratfish
Hyperoglyphe japonica—see Butterfish
Hypomesus pretiosus—see Smelt, surf

Hypomesus transpacificus—see Splittail
Hypoprion
  revision of shark genus *Carcharhinus*, TR 34
Hypoxia
  bibliography, TR 21

I

Ichthyoplankton
  distribution and abundance off Alaska, TR 20
  Florida Everglades
    sampling, TR 6
  larvae distribution and abundance, Gulf of Mexico
    Carangidae, TM SEFC-144
    Clupeidae, TM SEFC-144
    Coryphaenidae, TM SEFC-144
    Engraulidae, TM SEFC-144
    Istiophonidae, TM SEFC-144
    Lutjanidae, TM SEFC-144
    Serranidae, TM SEFC-144
    Xiphiidae, TM SEFC-144
  off San Onofre, California
    abundance, FB 82:103, 108
    cross-shelf patterns, FB 82:102
    ontogenic pattern changes, FB 82:105, 108
    sampling, shallow waters, FB 82:99
    vertical migration, FB 82:103, 107
  Onslow Bay
    Newport River estuary, North Carolina catch composition, distribution, and seasonality, TM SEFC-46
  SEAMAP, 1983, TM SEFC-167
  summer
    diel-depth distribution in Middle Atlantic Bight
    Auxis sp., FB 79:723
    Citharichthys arctifrons, FB 79:717
    Etropus microstomus, FB 79:723
    Hippoglossina oblonga, FB 79:720
    Merluccius bilinearis, FB 79:712
    Peprilus triacanthus, FB 79:720
    Pisodonophis cruentifer, FB 79:721
    Pomatomus saltatrix, FB 79:709
    Urophycis spp., FB 79:720
  survey estimates
    northeastern U.S., TM F/NEC-30
  vertical distribution off the Oregon coast, FB 83:611
Ichthyoplankton studies—see also Large Marine Ecosystems
Icichthys lockingtoni—see Medusafish
Illex illecebrosus—see also Squid, short-finned
  quality of mantles canned in oil, MFR 43(6):17
Incubation
  anchovies, egg larvae
    temperature dependent time parameters, TM SWFC-31
Incubators
  for salmonids, TM ABFL-1
  gravel hatchery, TM ABFL-3
Incubators, gravel
  effects of seeding density of pink salmon eggs on water chemistry and fry characteristics and survival, FB 78:649
Indexes
  U.S. fishing industry
    economic health of harvest sector, F/NEC-40
  snappers, western Atlantic, TM SEFC-8
Indian Ocean
  parasitofauna of sailfish, TR 25
Infection, PEN, FB 82:542
Infectious hematopoietic necrosis virus (IHNV), MFR 46(3):14
Infrared imagery
  continental shelf
    Georges Bank, TM F/NEC-38
    Nantucket Shoals, TM F/NEC-38
INPFC
  Japanese high sea salmon fishery, TM F/AKR-1
Instrumentation
  particle counter, FB 82:142, 144
International Commission for North Atlantic Fisheries (ICNAF)
  finfish biomass quotas, northwest Atlantic, MFR 45(10-12):23
International Whaling Commission (IWC), MFR 46(4):21, 26, 35, 39, 47, 59
Interspecific hybridization
  salmonidae
    annotated bibliography, TM NWFC-1
Invertebrate
  benthic, FB 81:515, 519
  benthic community structure
  relationships between wave disturbance and zonation in Monterey Bay, California
    canyon ridge transect, FB 78:448
    crustacean zone, FB 78:443
    environmental setting, FB 78:439
    polychaete zone, FB 78:446
    sandflat, northern, FB 78:447
    seasonal patterns, FB 78:449
  benthic marine equilibrium settlement rates, FB 80:642
  Chukchi Sea and Bering Sea
    trawl-caught, S 764
  community structure
    eastern Bering Sea, 1971-77, TM F/NWC-40
    eastern Bering Sea, 1978-81, TM F/NWC-35
  kelp forest, FB 82:57
Invertebrate communities
  Atlantic Bight, South
    benthic invertebrates, TR 18
    biomass density, TR 18
    habitat diversity, TR 18
    species composition, TR 18
Invertebrates, macrobenthic
  Martha's Vineyard, Mass.
    biomass, S 783
    density, S 783
    environmental factors, S 783
Investment—see Economic studies
Irrigation
  Columbia River
    screening of irrigation diversions, TM F/NWR-12
Isopoda
  life history, distribution, and abundance in New York Bight, S 766
Isopsetta isolepis—see Sole, butter
Isotherms, sea surface
  observations of albacore fishing off California, TM SWFC-11
Istiophoridae
  ichthyoplankton larval distribution and abundance
    Gulf of Mexico, 1982, TM SEFC-144
Istiophorus platypterus—see Sailfish

J

Jack, crevalle
  evaluating hard parts for age determination, TM SEFC-132
  food preferences
    from Florida, Louisiana, and Texas, TM SEFC-134
Jack, green
  observations, warm water periods, California, MFR 45(4-6):27
Jacks
  Atlantic Ocean, Gulf of Mexico, and Caribbean Sea
    guide to fishes taken in longlining, C 435
Jamaica freshwater shrimp, FB 81:654
Japan
  aquaculture status report
    phytoplankton, C 442
  fur seals, northern
    pelagic data and collection procedures, 1958-78, TM F/NWC-4
  import regulations
    fish and shellfish products, TM F/SWR-003
  investigations
    joint U.S. bottom trawl survey, eastern Bering Sea, 1981, TM F/NWC-88
    joint U.S. groundfish study, eastern Bering Sea, 1982, TM F/NWC-87
    joint U.S. groundfish trawl survey, Aleutian Islands, 1980, F/NWC-93
  longline fishing, Atlantic and Gulf of Mexico
    fishing activity and catch rates, 1979 and 1980, TM SEFC-125
    observer data versus Japanese quarterly reports, 1979, TM SEFC-64
    observer data versus Japanese quarterly reports, 1980, TM SEFC-125
  porphyra
  brown algae, C 442
  squid fishing industry, MFR 42(7-8):1
Japanese fishery
  longline catches
    Pacific cod and sablefish, Gulf of Alaska, 1978-83, TM F/NWC-82
  salmon
    INPFC, loss of constraints, and economic implications, TM F/AKR-1
Jellyfish
  squid jigging experiments, MFR 45(7-9):57
Jersey rake—see Clam rake
Juveniles
  menhaden, gulf, FB 82:93

K

Kachemak Bay
  larvae, king crab and pandalid shrimp
    distribution and abundance, S 765
Karyotypic analysis
  subspecific taxonomy of mammals
    annotated bibliography, TM SWFC-9
Katsuwonus pelamis, FB 81:435—see also Tuna; Tuna skipjack
Kelp
  giant, FB 82:37, 55
  rocky reef, FB 82:37
Kelp (continued)
  rope culture in Alaska
    appearance, growth, and size of young-of-the-year and yearling plants, MFR 43(2):19
    methods, MFR 43(2):19
    study area, MFR 43(2):19
Kelp forests
  off San Onofre, California
    characteristics, FB 82:37
    cinetransect calibration, FB 82:43
    sampling methods, FB 82:38
    transects, FB 82:40
    vertical stratification, FB 82:44
  off Santa Catalina Island, California
    algal community, FB 82:55
    biomass, FB 82:56
    composition, FB 82:55
    habitat reef, FB 82:55
    invertebrate assemblages, FB 82:55
    seasonal dynamics, FB 82:58, 60, 64
    vertical stratification, FB 82:56, 58, 64
Kelpfish, giant, FB 82:37
Kelpfish, halfmoon, FB 82:37
King-of-the-salmon—see Ribbonfish
Kingfish, Kanadi—see Mackerel, Queensland school
Kingfish, southern
  distribution, FB 82:427, 429
  length-frequency, FB 82:430
  length-weight, FB 82:432
Klebsiella pneumoniae
  isolated from scombroid fish poisoning incidents, MFR 45(4-6):35, 38
  isolated from skipjack tuna, MFR 45(4-6):40
Kochi prefecture, Japan
  finfish culture, TR 10
Kodiak Island, Alaska
  ichthyoplankton off the Continental Shelf, TR 20
Krill
  Antarctic
    review of utilization research, S 769
Krohnitta pacifica
  chaetognatha of the Caribbean Sea
    classification, TR 15
    key to species, TR 15
Krohnitta subtilis
  chaetognatha of the Caribbean Sea
    classification, TR 15
    key to species, TR 15
Kudoa quadratum
  ultrastructure and cytochemistry, TR 25
Kudoa spp.—see parasites, Myxosporean

L

Laboratory culture
  diet effects on spot prawn larvae, TM F/NWC-68
Labridae
  proximate chemical composition, MFR 46(3):71
  seamount fishery research, central North Pacific, MFR 46(2):11
Lachnolaimus maximus—see Hogfish
Lacistorhynchus tenuis (metacestode)
  infection in striped bass, TR 29

Lactation
juvenile dolphin survival rate, TM SWFC-51
Ladyfish
evaluating hard parts for age determination, TM SEFC-132
Lagenodelphis hosei—see Dolphin, Fraser's
Lagenorhynchus acutus—see Dolphin, Atlantic whitesided
Lagenorhynchus obliquidens—see Dolphin, Pacific white-sided
Lagodon rhomboides—see Fish, seagrass; Pinfish
Laguna San Ignacio
Baja California Sur, Mexico
cleaning symbiosis between topsmelt and gray whale, FB 79:360
Laminaria groenlandica—see Kelp
Lampetra ayresi—see Lamprey, river
Lampfish, northern, FB 82:68
Lamprey, river
Columbia River estuary, FB 81:165
growth and upstream migration, FB 81:166
marine life, FB 81:165
Yaquina Bay, Oregon, FB 81:165
Lamprey, sea
viral eurythrocytic necrosis (VEN), FB 82:543
Lancetfishes
Atlantic Ocean, northwestern, the Gulf of Mexico and the Caribbean Sea
guide to fishes taken in longlining, C 435
Large Marine Ecosystems (LME)
CalCOFI studies, MFR 45(10-12):4, 7
California current, MFR 45(10-12):3
Eastern Bering Sea, MFR 45(10-12):3
fisheries studies, MFR 45(10-12):3
ichthyoplankton surveys, MFR 45(10-12):3
Gulf of Alaska, MFR 45(10-12):3
Gulf of Mexico, MFR 45(10-12):3
management
environmental studies, MFR 45(10-12):23
population surveys, MFR 45(10-12):23
resource assessment, MFR 45(10-12):23
Northeast Continental Shelf LME, MFR 45(10-12):3
Northeast Fisheries Center, NMFS
density-dependent recruitment studies, MFR 45(10-12):22
ecosystem linkages, MFR 45(10-12):19
larval production, MFR 45(10-12):21
Narragansett Laboratory, MFR 45(10-12):22
Northwest and Alaska Fisheries Center, NMFS
areas of interest, MFR 45(10-12):12
Eastern Bering Sea, MFR 45(10-12):12, 13
egg-larvae guide, MFR 45(10-12):12
Gulf of Alaska, MFR 45(10-12):12, 15
ichthyoplankton survey locations, MFR 45(10-12):17
Pacific salmon studies, MFR 45(10-12):16
pollution stress, MFR 45(10-12):17
Washington-Oregon coast, MFR 45(10-12):12, 15
pollution studies, MFR 45(10-12):22
primary production studies, MFR 45(10-12):20
sampling strategy, MFR 45(10-12):19
Southeast Fisheries Center, NMFS
bluefin tuna assessments, MFR 45(10-12):6
Gulf of Mexico, MFR 45(10-12):3
ichthyoplankton identification, MFR 45(10-12):5
ichthyoplankton surveys, Gulf, MFR 45(10-12):4
pollution stress, MFR 45(10-12):7
Large Marine Ecosystems (LME) (continued)
Southeast Fisheries Center, NMFS (continued)
Southeast Area Monitoring Assessment and Prediction (SEAMAP), MFR 45(10-12):6
Southwest Fisheries Center, NMFS
CalCOFI population assessments, MFR 45(10-12):11
CalCOFI studies, MFR 45(10-12):7
California Current, MFR 45(10-12):7
Honolulu Laboratory studies, MFR 45(10-12):12
larval fish identification, MFR 45(10-12):7
physiological ecology studies, MFR 45(10-12):7
pioneering studies, MFR 45(10-12):7
pollution stress, MFR 45(10-12):12
sardine, anchovy abundance, MFR 45(10-12):9
Tiburon Laboratory studies, MFR 45(10-12):12
Washington-Oregon coast, MFR 45(10-12):3
stressed northeast shelf ecosystems, MFR 45(10-12):18
target species recruitment studies, MFR 45(10-12):3
trawl surveys, MFR 45(10-12):4
Larimus fasciatus—see Drum, banded
Larvae
anchovy
three parameters associated with abundance, TM SWFC-31
anchovy, northern, FB 81:741
anchovy, northern
percentage of starving in southern California Bight, FB 78:475
cod, Arcto-Norwegian, FB 82:141, 148
cod, Atlantic, FB 81:834
crab, FB 82:315
crabs, lithodid, FB 82:321
croaker, FB 81:895
croaker, Atlantic, FB 81:405
croaker, white, FB 82:188, 195
eel, Atlantic, FB 81:483
effects of deep seabed mining on tuna and billfishes, TM SWFC-44
fish, Caribbean, S 776
fish census method, TR 36
fish, environmental effects, FB 83:313
Florida Everglades
ichthyoplankton sampling, TR 6
flounder, winter, FB 81:913
food web off southern California coast, FB 83:151
haddock, FB 81:834
herring, Atlantic, growth studies, FB 83:289
Hexagrammid development, TR 2
herring, Pacific, FB 82:113
ichthyoplankton, FB 82:97
distribution and abundance, Gulf of Mexico, TM SEFC-144
Kachemak Bay
king crab and pandalid shrimp, S 765
lobster, American, S 775
lobster, spiny, FB 82:694
lord, longfin Irish, development in Bering Sea, FB 83:447
menhaden, FB 81:895
menhaden, Atlantic, S 774
menhaden, gulf, FB 82:88, 513
pigfish, FB 81:847
pollock, walleye, FB 81:890
sable fish growth, FB 83:475
sculpin, C 430
sculpin, longhorn, FB 81:785

Larvae (continued)
scup, FB 82:77
shad, American, FB 81:324
shrimp, FB 82:523, FB 83:253
shrimp, pink, FB 81:455
spot, FB 81:405, 895, FB 83:587
teleost taxonomy, C 450
Laysan Island
Hawaiian monk seal, 1982, TM SWFC-42
Hawaiian monk seal observations, 1977-80, TM SWFC-49
Leachia danae
identification, TR 17
Leatherjackets
osteology, phylogeny, and higher classification, C 434
Leavenworth National Fish Hatchery
effects of volcanic ash on juvenile salmon smolts, MFR 45(2):9
Lebbeus polaris
description
stage I zoeae, FB 79:422
stage II zoeae, FB 79:425
Leiostomus xanthurus—see Spot
Length-frequency distributions
reef fishes, Panama City, Florida, 1978-79, TM SEFC-61
Lepidochelys kempi—see Sea turtles, Kemp's ridley; Turtle, Atlantic ridley; Turtle, Kemp's ridley
Lepomis macrochirus—see Bluegill
Lepophidium cervinum—see Cusk-Eel, fawn
Leptocephali, congrid eel
key to genera, TR 22
Leptocephali—see Eel, Atlantic
Leptocottus armatus—see Sculpin, Pacific staghorn
Lethrinidae
proximate chemical composition, MFR 46(3):71
Leuresthes tenuis—see Grunion, California
Leuroglossus Gilbert, FB 81:24, 36
Leuroglossus schmidti—see Smoothtongue, northern
Lichens
U.S., NE
collection methods, C 446
ecology, C 446
key to species, C 446
Life history
crab, Dungeness, MFR 47(3):21
gobiid fishes
compared to ecological information, TM SEFC-15
whiting, Pacific, MFR 47(2):1
Life stages
occurrence in some recreational marine fishes
in Gulf of Mexico estuaries, TM SEFC-45
Limanda aspera—see Sole, yellowfin
Limanda ferruginea—see Flounder, yellowtail
Limulus polyphemus—see Crab, horseshoe
Ling cod
Pacific Ocean
development, TR 2
Liocranchia reinhardti
identification, TR 17
Liopsetta putnami—see Flounder, smooth
Lipids
classes in coastal herring, MFR 45(4-6):45
Lironeca vulgaris
otter trawl sampling bias of, from sanddab host, FB 80:907
Lisianski Islands
Hawaiian monk seal
diving patterns, 1982, TM SWFC-41
population research, 1982, TM SWFC-47
Literature review
exploitation of California sea lion, MFR 47(1):36
Lithodes aequispina—see Crab, golden king
Lithodes couesi—see Crab, deep-sea king
Little Goose Dam
salmonids, juvenile
evaluation of a bypass system, MFR 42(6):25
Little White Salmon National Fish Hatchery
effects of volcanic ash on juvenile salmon smolts, MFR 45(2):9
Lobster
molting, FB 82:529
spawning, FB 82:529
Lobster, American
Carolinian records for, postulated means of dispersal, FB 79:192
CPUE, FB 81:52
damage from scallop drags, FB 83:575
distribution and abundance of larvae, S 775
egg extrusion, prediction, FB 82:243
fecundity in Newfoundland waters, FB 79:796
lobster traps, FB 81:52, 56
Long Island Sound
population characteristics, S 770
Maine coast
movements, growth, and mortality from taggings, S 747
molt prediction, FB 82:243
movements of tagged off Rhode Island, FB 78:771
resorption, FB 82:248
size-maturity, FB 82:244
Lobster, rock
factors affecting growth, FB 83:567
stock and recruitment relationships in Western Australia
breeding stock, FB 80:478
breeding stock abundance, FB 80:476
index of abundance of spawning stock, FB 80:478
juvenile abundance, FB 80:477, 480
juvenile densities and recruitment to the fishery, FB 80:482
puerulus and juvenile densities, FB 80:481
puerulus settlement and subsequent spawning stock, FB 80:482
puerulus stage abundance, FB 80:477, 480
recruits to fishery abundance, FB 80:477, 480
spawning stock and puerulus settlement, FB 80:480
stock definition, FB 80:477
Lobster, slipper
seamount fishery research, central North Pacific, MFR 46(2):13
Lobster, spiny
allele examination, FB 82:695
effects of injuries and implications for fishery management, FB 78:979
electrophoresis, FB 82:695
enzyme variation, FB 82:695
genetic variation, FB 82:693
predation during testing in northwestern Hawaiian Islands, MFR 47(1):27
Lobster traps
crab, Jonah, FB 81:52
crab, rock, FB 81:52
lobster, American, FB 81:52

Logging
effects on small streams, TM F/NWC-73
Loligo opalescens—see also Squid, market; Squid, Pacific market
identification, TR 17
Loligo pealei—see Squid, long-finned
Long Island Sound, New York
contaminants
effects on benthos, TM F/NEC-16
in demersal species and sediments, TM F/NEC-16
population characteristics of the American lobster, S 770
shark, white, observations off, FB 80:153
Longline—see Fishery
Longline exploration
for albacore in eastern North Pacific, 1981, TM SWFC-10
Longline gear, halibut
bait loss observed from a submersible, MFR 42(2):26
Longline operations
Atlantic Ocean, the Gulf of Mexico and the Caribbean Sea
guide to fishes, C 435
Longliners
foreign tuna catch and effort
central and western Pacific, 1965-77, TM SWFC-2
Lophius americanus—see Goosefish
Lord, longfin Irish
development of larvae, FB 83:447
Louisiana
ice plant survey, 1980-81, MFR 44(9-10):55
jack, crevalle
food preferences, TM SEFC-134
1981 closure
comparison of shrimp and finfish catch rates and ratios, MFR 44(9-10):44
salt dome brine disposal sites
biochemical survey, 1978-79, TM SEFC-25 to SEFC-33
shrimp, brown
movement and migration tagging experiment, 1978, TM SEFC-78
shrimp, white
effects of temperature on growth, TM SEFC-56
summary results of tagging experiments, 1977, TM SEFC-72
tail length/weight relationship, 1977, TM SEFC-57
shrimp closures
review, 1982, TM SEFC-108
review, 1983, TM SEFC-136
review, 1984, TM SEFC-156
summary of penaeid shrimp tagging experiments, 1979
movement and migration, TM SEFC-89
Lutjanidae—see also snappers, western Atlantic
ichthyoplankton larval distribution and abundance
Gulf of Mexico, 1982, TM SEFC-144
proximate chemical composition, MFR 46(3):71
seamount fishery research, central North Pacific, MFR 46(2):11
Lutjanus campechanus—see Fish, reef; Snapper, red
Lyopsetta exilis—see Ichthyoplankton

M

Mackerel, atka
preservation and processing study, MFR 47(1):73
Mackerel, Atka Hokke
Pacific Ocean, N.E.
development, TR 2
Mackerel, Atlantic
harvest estimate, Texas charterboat fishery, MFR 45(1):11
Middle Atlantic region, 1978 spring recreational catch
catch rate estimation, FB 78:801
fishing effort estimation, FB 78:800
lengths, weights, and age composition, FB 78:802
sampling, FB 78:799
recruitment studies, MFR 45(10-12):4
spawning and fecundity in Middle Atlantic Bight, FB 78:103
stock recovery trends, MFR 45(10-12):18
voluntary swimming speeds and respiration rates
experimental procedure, FB 78:878
feeding measurements, FB 78:882
initial and final measurements, FB 78:881
postfeeding measurements, FB 78:882
Mackerel, Australian spotted
biology, FB 82:649
fisheries, FB 82:649
species type, FB 82:647
Mackerel, broad-barred Spanish
biology, FB 82:661
fisheries, FB 82:661
geographic variation, FB 82:662
species type, FB 82:659
Mackerel, bullet
observations, warm water periods, California, MFR 45(4-6):27
Mackerel, chub, FB 82:68
fatty acid and lipid composition, MFR 45(4-6):45
seamount fishery research, central North Pacific, MFR 46(2):11
Mackerel, Indo-Pacific king
biology, FB 82:634
fisheries, FB 82:635
geographic variation, FB 82:635
species type, FB 82:630
Mackerel, jack
applications of satellite data for fisheries management, MFR 46(3):5
California
resource abundance, 1963-78, S 762
rearing container size affects morphology and nutritional condition of larval, FB 78:789
Mackerel, Japanese Spanish
biology, FB 82:651
fisheries, FB 82:652
geographic variation, FB 82:652
species type, FB 82:649
Mackerel, king
biology, FB 82:619
fisheries, FB 82:620
gear types, FB 81:713
immature group, FB 81:719
landings, Alabama charterboat fishery, MFR 45(1):15
Louisiana group, FB 81:720
otoliths, FB 81:99, 103, 104
possible temperature effects on charter boat catches in northwest Florida
catch seasonality, MFR 43(8):23
fish sizes, MFR 43(8):24
source and treatment of data, MFR 43(8):21
species composition and catch per hour, MFR 43(8):22
temperature, MFR 43(8):25
seasonal difference in size, FB 81:712

Mackerel, king (continued)
sex ratio, FB 81:712, 721
size at recruitment, FB 81:718
size comparison, FB 81:716
size limits, FB 81:718
southeastern United States, FB 81:97, 709
spawning group, FB 81:720
species type, FB 82:616
Mackerel, Monterey Spanish
biology, FB 82:629
fisheries, FB 82:629
species type, FB 82:628
Mackerel, narrow-barred king
biology, FB 82:626
fisheries, FB 82:626
geographic variation, FB 82:627
species type, FB 82:622
Mackerel, Pacific
applications of satellite data for fisheries management, MFR 46(3):5
California
resource abundance, 1963-78, S 762
life history, early
feeding behavior, FB 78:94
growth, FB 78:93
hatching, onset of feeding, and starvation, FB 78:91
laboratory experiments and sea samples, FB 78:89
larvae culture, FB 78:91
ration, growth efficiency, and metabolism, FB 78:97
swimming behavior, FB 78:94
Mackerel, queen
biology, FB 82:654
fisheries, FB 82:654
species type, FB 82:652
Mackerel, Queensland school
biology, FB 82:656
fisheries, FB 82:656
geographic variation, FB 82:656
species type, FB 82:654
Mackerel, scad
seamount fishery research, central North Pacific, MFR 46(2):11
Mackerel, serra Spanish
biology, FB 82:614
fisheries, FB 82:615
species type, FB 82:613
Mackerel, snake
Atlantic Ocean, the Gulf of Mexico and the Caribbean Sea
guide to fishes taken in longlining, C 435
seamount fishery research, central North Pacific, MFR 46(2):9
Mackerel, Spanish
biology, FB 82:643
characters for analysis, FB 82:690
fisheries, FB 82:645
geographic variation, FB 82:646
Grammatorcynus, Acanthocybin, and Scomberomorus, FB 82:547
landings, Texas charterboat fishery, MFR 45(1):15
morphology, FB 82:549
relationships of species, FB 82:670
Scomberomorus brasiliensis, FB 82:613
S. cavalla, FB 82:616
S. commerson, FB 82:622
Mackerel, Spanish (continued)
S. concolor, FB 82:628
S. guttatus, FB 82:630
S. koreanus, FB 82:636
S. lacepede, FB 82:611
S. lineolatus, FB 82:638
S. maculatus, FB 82:641
S. miphonius, FB 82:649
S. multiradiatus, FB 82:646
S. munroi, FB 82:647
S. plurineatus, FB 82:652
S. queenslandicus, FB 82:654
S. regalis, FB 82:657
S. semifasciatus, FB 82:659
S. sierra, FB 82:662
S. sinensis, FB 82:665
S. tritor, FB 82:668
species biology, FB 82:611
species type, FB 82:641
Mackerel, West African Spanish
biology, FB 82:670
fisheries, FB 82:670
species type, FB 82:668
Mackerel-like fishes
guide to fishes taken in longlining, C 435
Macrobenthic, invertebrates—see Invertebrates, macrobenthic
Macrobrachium faustinum—see Shrimp, freshwater
Macrobrachium rosenbergii—see Prawn, freshwater
Macrocystis pyrifera—see Kelp, giant
Macrouridae
ichthyoplankton off Alaska, TR 20
Macrozoarces americanus—see Pout, ocean
Magelonida
life history, distribution, and abundance in New York Bight, S 766
Magnuson Fishery Conservation and Management Act of 1976 (MCFCMA)
conservation and management of fishery resources, MFR 45(7-9):21
fisheries management and charterboat industry, MFR 46(3):48
total ecosystem management, MFR 45(10-12):23
Mahi-mahi—see Dolphin fish
Maine
fishery, FB 82:121
guide to trawl-caught fishes, C 431
input-output analysis of fisheries data, MFR 44(1):3
model consruction, MFR 44(1):6
regional approach, MFR 44(1):2
sculpins
trophic patterns among larvae of five species in an estuary, FB 80:827
Sheepscot Estuary
sandworm, life history studies, FB 80:735
Maine coast
lobster movement, growth, mortality, S 747
worm fishery, S 767
Makaira indica—see Marlin, black
Mammals, marine
harbor seals/disturbance, FB 82:493
harvest moratorium, NE North Pacific
incidental foreign catch, MFR 45(7-9):44
catch location, MFR 45(7-9):46
catch reporting, MFR 45(7-9):44

Mammals, marine (continued)
Harvest moratorium, NE North Pacific (continued)
estimating annual take, MFR 45(7-9):49
future monitoring, MFR 45(7-9):49
General Permit system, MFR 45(7-9):44
mortalities, MFR 45(7-9):45
observer data, 1978-81, MFR 45(7-9):45
interaction, FB 81:510
petroleum resource development, offshore
background, MFR 42(11):5
behavioral effects of oil, MFR 42(11):6
behavioral/psychological effects of noice, MFR 42(11):4
boat collision, MFR 42(11):5
indirect effects, MFR 42(11):10
ingestion and accumulation of oil, MFR 42(11):7
inhalation of oil, MFR 42(11):9
monitoring program, MFR 42(11):10
noxious effects of oil, MFR 42(11):7
oil countermeasures, MFR 42(11):9
oil detection and avoidance, MFR 42(11):5
physiological effects of noise, MFR 42(11):3
shock wave effects, MFR 42(11):1
thermal effects of oil, MFR 42(11):6
sea lions, California, FB 82:67
seals, harbor, FB 82:493
Soviet-American Research, TR 12
Soviet investigations of helminth fauna, TR 25
Management
Alaskan fur seal, S 780
northern fur seals on Pribilof Islands, Alaska, 1786-1981, TR 4
Manatee, FB 81:501
Manatee, West Indian
Florida, western peninsular
aerial surveys, FB 80:621
Margaritana margaritana—see Mussel, freshwater
Mariana Archipelago
fishery resource asssessment, MFR 47(4):19
Mariculture
mollusks in greater Carribean, MFR 47(4):1
extensive culture, MFR 47(4):5
pilot project and research, MFR 47(4):6
semi-intensive culture, MFR 47(4):2
Marine fish farms, Norwegian
salmon, Atlantic, MFR 46(3):44
trout, rainbow, MFR 46(3):46
Marine fisheries—see Delaware
Marine flora and fauna
Echinodermata: Echinoida
annotated systematics list, TR 33
distribution, TR 33
external morphology, TR 33
index, TR 33
key to species, TR 33
natural history, TR 33
United States
Ascomycetes, C 446
Protozoa: Sarcodina: Foraminifera, C 439
Scleractinian coral, C 438
Turbellaria: Acoela and Nemertodermatida, C 440
Marine Mammal Protection Act (MMPA) of 1972
harvest moratorium on marine mammals, MFR 45(7-9):44
NMFS responsibilities, MFR 46(3):18
Marine Mammal Protection Act (MMPA) of 1972 (continued)
protection of endangered whales, MFR 46(4):2
Marine mammals—see Mammals, marine
Marine Resources Monitoring Assessment and Prediction (MARMAP)
ichthyoplankton and fish recruitment studies, MFR 45(10-12):1
survey cruises, FB 82:21
Marine worm fishery—see Fishery, worm
Market news
future, MFR 47(2):104
goals, MFR 47(2):101, 103
history, MFR 47(2):102
purpose, MFR 47(2):100
Marking technique
salmon, chum, TR 27
Markov decision models
using, and related techniques for purposes other than simple optimization
defining the model on a discrete grid, FB 78:37
model, FB 78:36
policy analysis, FB 78:39
Marlin, black
Pacific Ocean, southwest
migration rates and patterns, S 772
Marlin, Pacific blue
electrophoresis, FB 81:86
Hawaiian waters, FB 81:85
Marlin, striped
Baja California
catch, MFR 45(7-9):63
weight, MFR 45(7-9):63
optimum catch temperatures, MFR 45(4-6):31
relationship of sea surface temperatures to catch off southern California, MFR 47(3):43
Southern California
harvest, MFR 45(7-9):63
sex ratios, MFR 45(7-9):64
weight data, MFR 45(7-9):63, 67
Marlin, white
landings, North Carolina charterboat fishery, MFR 45(1):16
Marlin-spike
Atlantic Ocean, N.E.
food habits, S 740
Marshes, FB 82:455
Martha's Vineyard, Mass.
macrobenthic invertebrates, S 783
Maryland
fish and shellfish commercial landings
climatic factors, FB 80:611
Massachusetts
whales, right
Cape Cod waters, FB 80:875
Mathematical techniques—see also Simulation
age-growth estimation, FB 81:805
A. posteriori *t*-tests, FB 82:101
Analysis of Variance (ANOVA), FB 82:101
biomass calculation, FB 82:446
clam growth rates, FB 82:537
mortality rates, FB 81:898
otolith growth, FB 81:529
percent similarity index, FB 81:375
power plant impact assessment, FB 81:615

Mathematical techniques (continued)
regression analysis, FB 81:530
searching fisheries, FB 82:449
Medusafish, FB 82:68
Megaptera novaeangliae—see Whale, humpback
Melanogrammus aeglefinus—see Haddock; see Hake, longfin
Menhaden
chlorinated hydrocarbon residues in fishery products
DDT and its metabolites, MFR 43(3):4
dieldrin, MFR 43(3):8
endrin, MFR 43(3):8
PCB, MFR 43(3):5
results interpretation, MFR 43(3):11
statistical evaluations, MFR 43(3):9
fatty acid composition of, MFR 47(3):30
finescale, FB 82:85
yellowfin, FB 82:85
Menhaden, Atlantic, FB 82:85
age, FB 81:134, 135
application of models to the field, FB 81:197
assimilation efficiency and nitrogen excretion, FB 79:601
chemical composition, FB 81:139
distribution of eggs and larvae, S 774
Ditylum, FB 81:183, 186, 192
Ditylum brightwelli, FB 81:179, 181, 196
energy budget, FB 81:177, 179, 184, 191
extension of model to particles of different size, FB 81:196
fishery sampling statistics, TR 9
Florida to Maine, FB 81:177
growth rate, FB 81:135
Holocanthus, FB 81:193
ichthyoplankton and pollution stress studies, MFR 45(10-12):7
larvae distribution patterns, MFR 45(10-12):19
Narragansett Bay, Rhode Island, FB 81:133
nitrogen budget, FB 81:177, 183, 187
optimal foraging by planktivores, FB 81:195
recruitment studies, MFR 45(10-12):4
sampling statistics in fishery, TR 9
size, FB 81:134, 135
Menhaden, gulf
comparison to other Brevoortia sp., FB 82:93
distribution, FB 82:85
diurnal vertical migration, FB 82:517
embryos, FB 82:87
infections, FB 81:895
larvae, FB 81:895, FB 82:88, 513
myomeres, FB 82:89
recruitment and exploitation
area-specific and age-specific exploitation rates, FB 79:333
mortality rate estimation from adult tag recoveries, FB 79:329
movement and recruitment of juvenile tagged fish, FB 79:326
tagging methodology, FB 79:325
spawning and sexual maturity
age and size of first spawning, FB 78:948
ova spawned, number, FB 78:950
stages of sexual maturity, FB 78:948
time and frequency of spawning, FB 78:949
swim bladder, FB 82:513
Menidia menidia—see Silverside, Atlantic
Menticirrhus americanus—see Kingfish, southern
Mercenaria mercenaria—see Clam, hard
Mercury exposure
bass, striped
effects of long-term on hematology, FB 80:389
Merluccius albidus—see Hake, silver
Merluccius bilinearis—see Hake, silver; Whiting, Atlantic
Merluccius productus—see Hake, Pacific; Whiting, Pacific
Mesh size
trawl, otter, S 771
Micrococcus
in freshly caught marine fish, MFR 45(4-6):35
Microgadus proximus—see Tomcod, Pacific
Microgadus tomcod—see Tomcod, Atlantic
Micropanope sculptipes
complete larval development in laboratory
comparative morphology with other xanthid larvae, FB 79:499
first zoea, FB 79:490
fourth zoea, FB 79:494
megalopa, FB 79:497
plesiomorphy and larval development, FB 79:503
second zoea, FB 79:492
status of Micropanope in Family Xanthidae, FB 79:505
third zoea, FB 79:494
Micropogon undulatus—see Croaker
Micropogonias undulatus—see Croaker, Atlantic
Microstomus pacificus—see Sole, Dover
Midshipman, plainfin
environmental variables, FB 82:165
increment formation, FB 82:165
microstructure examination, FB 82:165
rearing, FB 82:165
Migration—see also Movement patterns
albacore, MFR 47(3):48
bowhead and white whale, S 778
crab, horseshoe, FB 82:383
crab, snow, FB 83:707
diel, blacksmith, FB 82:202
diurnal/vertical, gulf menhaden, FB 82:517
fish, FB 81:789
flounder, summer, S 752
ichthyoplankton, FB 83:611
lamprey, river, FB 81:165
lobster, American, FB 83:575
marlin, black
tagging program, S 772
northern Gulf of Mexico, FB 81:789
porpoise, harbor, FB 83:543
queenfish, FB 83:171
rockfish, FB 81:920, 921
sablefish, FB 81:415
salmon, chinook, FB 82:157
salmon, coho, FB 81:143, 412, FB 83:682
salmon, sockeye, FB 82:405
salmonids, FB 81:815
sea urchin, MFR 47(3):4, 5
shrimp, FB 81:789
shrimp, brown, FB 81:396
tracking techniques for pelagic fish, MFR 47(4):35
vertical, ichthyoplankton, FB 82:103
whiting, Pacific, MFR 47(2):2, 3, 75, 76
Mikaira nigricans—see Marlin, Pacific blue
Millstone Point, Connecticut
population characteristics of American lobster, S 770

Minced fish
amount in fish blocks, MFR 46(3):76
in cooked sausage products, MFR 45(7-9):21
washed, unwashed, MFR 45(7-9):28
with texturized soy protein (TSP)
composition, MFR 45(7-9):34
nutritive values, MFR 45(7-9):34
Minchinia chitonis
spore structure, MFR 43(10):5
Mirounga angustirostris—see Seal, northern elephant
Mississippi
fishery, FB 82:427
ice plant survey, 1980-81, MFR 44(9-10):55
Molas
osteology, phylogeny, and higher classification, C 434
Molidae—see Molas
Mollie
efficiency as live bait for pole-and-line skipjack fishing
fishing results, general, MFR 42(6):18
mollies as baitfish, MFR 42(6):17
Samoa, American, MFR 42(6):19
survival, MFR 42(6):18
Tuvalu and the Gilbert Islands, MFR 42(6):20
Mollusca
life history, distribution, and abundance in New York Bight, S 766
Mollusks
bivalve, ageing, MFR 46(2):27
mariculture in Carribean MFR 47(4):1
Mollusks, bivalves
Woods Hole
East Coast Specimen collection, S 768
Mollusks, littoral
trematode infection, TR 25
Monachus schauinslandi—see Seal, Hawaiian monk
Monodon monoceros—see Narwhal
Monogenean fauna
parasitology and pathology of marine organisms of the world ocean, TR 25
Montercy, California
sea level variation, S 761
Monterey Bay, California
invertebrate community, benthic
relationships between wave disturbance and zonation along a subtidal high-energy beach, FB 78:437
Monterey Harbor, California
otter, sea
observations on digging for clams, FB 78:159
Morone americana—see Perch, white
Morone saxatilis (Walbaum)—see Bass, striped
Morphology
crab, mud, FB 81:865, 883, 885
crabs, lithodid, larvae, FB 82:321
croaker, white, FB 82:179
eel, American, FB 82:519
lord, longfin Irish, larvae, FB 83:447
mackerel, Spanish, FB 82:545
pigfish larvae, FB 81:852
shad, American, FB 81:323
shrimp, larvae, FB 83:253
shrimp, mantis, FB 82:424
shrimp, rock, FB 83:1
walleye, FB 82:412
Morro Bay, California
fish populations, shallow-water
diel and seasonal variation in abundance and diversity, FB 78:759
Mortality rates
anchovy, northern, FB 81:741, FB 82:71
calculation, FB 82:449
clam, FB 82:541
crab, horseshoe, FB 82:388
croaker, FB 81:895
density-dependent searching time, FB 82:449
dolphin, FB 81:1
drum, banded, FB 82:342
fish, seagrass, FB 81:837
flounder, winter, FB 81:914
grunion, California, FB 81:476
linear regression, FB 81:899, 901
longevity data, FB 81:898
mackerel, king, FB 81:104
menhaden, FB 81:895
porpoise, harbor, FB 81:661
power plant impact, FB 81:613
rockfish, FB 82:71
salmon, FB 82:412, 413
salmon, sockeye, FB 82:404
salmonids, FB 81:820
shrimp, freshwater, FB 81:656
shrimp, pink, FB 81:465
spot, FB 81:895
squid, FB 82:71
tilefish, FB 81:760
triggerfish, gray, FB 82:486
whiting, Pacific, FB 82:71
Movement patterns
analyses and production, FB 82:450
bass, striped, FB 81:420
bonefish, FB 81:148
char, Arctic, FB 82:405
drum, banded, FB 82:351, 352
eel, Atlantic, FB 81:487
fish, pelagic, FB 81:569
rockfish, FB 81:916
seal, harbor, FB 81:291
Mullidae
proximate chemical composition, MFR 46(3):71
Mummichog
fin regeneration
effect of zinc on and its interaction with methyl-mercury, FB 78:163
otolith increment formation
age estimation of wild fish, FB 80:210, 213
effect of temperature and body growth on otolith formation, FB 80:210, 213
embryological formation, FB 80:204, 206, 211
light effect on increment formation, FB 80:206, 212
removal, preparation, and inspection, FB 80:204
semilunar reproductive cycles, FB 83:467
Munidopsis
species occurring off Oregon and adjacent waters
characters of taxonomic importance, FB 78:16
key to species, FB 78:16
Munidopsis aries, FB 78:17

Munidopsis (continued)
species occuring off Oregon (continued)
Munidopsis bairdii, FB 78:18
Munidopsis beringana, FB 78:24
Munidopsis cascadia n. sp., FB 78:21
Munidopsis cthata, FB 78:19
Munidopsis latirostris, FB 78:28
Munidopsis quadrata, FB 78:17
Munidopsis sp., FB 78:18
Munidopsis subsquamosa, FB 78:26
Munidopsis tuftsi n. sp., FB 78:24
Munidopsis verrucosus, FB 78:27
Munidopsis yaquinensis n. sp., FB 78:20
vertical and geographic distribution, FB 78:29
Mussel
blue, FB 82:387
gonad color, FB 81:738
Long Island Sound, FB 81:733
reproductive cycle, FB 81:735
sex ratios, FB 81:738
Far East
ageing experiments, MFR 46(2):33
freshwater
ageing experiments, MFR 46(2):33
trematode infection, TR 25
Mya arenaria—see also Clam; Clam, soft-shell
equilibrium settlement rate estimation, FB 80:642
Mycteroperca microlepsis—see Fish, reef
Mycteroperca phenax—see Fish, reef
Myctophidae
ichthyoplankton off Alaska, TR 20
Mylocheilus caurinus—see Peamouth
Myoxocephalus aenaeus
trophic patterns among larvae in an estuary, FB 80:827
Myoxocephalus octodecemspinosus—see also Sculpin, longhorn
trophic patterns among larvae in an estuary, FB 80:827
Myoxocephalus scorpius
trophic patterns among larvae in an estuary, FB 80:827
Mysidacea
life history, distribution and abundance in the New York Bight, S 766
Mysids, FB 82:55
Mytilus edulis—see Mussel, blue
Mytilus galla provincialis—see Mussels
Myxosporidian fauna
parasitology and pathology of marine organisms of the world ocean, TR 25

N

Names of fishes, MFR 45(7-9):1
Nantucket Sound, Massachusetts
experimental squid fishing with lights, MFR 42(7-8):51
Narwhal
Pacific Ocean and Arctic waters
identification guide, C 444
satellite monitoring of winter ice cover, MFR 46(3):7
National Aeronautics and Space Administration (NASA)
satellites and fisheries management applications, MFR 46(3):1
Naucrates ductor—see Pilotfish
Negaprion brevirostris—see Shark, lemon
Nekton
collection, FB 82:456
community composition, FB 82:459
marsh habitats, FB 82:455
oceanic
opening-closing midwater trawl vs. Isaacs-Kidd midwater trawl, FB 78:529
regeneration of nitrogen in northwest Africa upwelling system
excretion measurements, FB 80:329
nekton biomass, FB 80:331
regeneration rates, FB 80:332
seasonality, FB 82:458
tidal creeks, FB 82:456
Nematoscelis megalops
avoidance of towed nets, FB 80:75
Neogobius melanostomus—see Bullhead
Nereis virens—see Sandworm
Nets
tuna purse seine
passive behavior of spotted dolphins, FB 78:535
New England
groundfishery
mesh size: applications and implications, S 771
squid
experimental pair trawling, MFR 42(7-8):57
New England, southern
movements of summer flounder, S 752
New England Fishery Management Council
fishery quotas, MFR 45(1):2
New Jersey
fishery, FB 82:384
lichens of the intertidal region, C 446
New Port River estuary, North Carolina, FB 81:405
New York Bight
fishery, FB 82:502
life history, distribution, and abundance of dominant benthic invertebrates, S 766
plankton sampling, TR 5
reef, artificial
food of fish collected on, MFR 44(6-7):49
Newfoundland, Canada
fecundity of American lobster in waters, FB 79:796
lichens of the intertidal region, C 446
squid, short-finned
recent developments in fishery, MFR 42(7-8):15
Nezumia bairdi—see Marlin-spike
Nomenclature system
seafood, MFR 45(7-9):1, 6
North America, west
crab, Dungeness
correlation between annual catches and mean annual sunspot number, FB 79:794
North Carolina, FB 81:429
clam-kicking industry, MFR 44(1):16
shrimp, pink
relationship of winter temperature and spring landings, FB 80:761
snapper, vermilion
reproductive biology, FB 78:137
Northern Mariana Islands
bait, skipjack tuna, FB 81:434
Norwegian fishery, FB 82:144

Nototodarus hawaiiensis
identification, TR 17
Nursery habitats
crab, Dungeness, in Columbia River estuary, MFR 47(3):21
pink shrimp fishery in Tortugas Sanctuary off south Florida, MFR 47(4):11
Nutrient environment
Georges Bank and adjacent waters, TR 32
Nutritional studies
fatty acid composition of commercial menhaden, MFR 47(3):30
salmon, fry, TR 27

O

Observer program
"tuna-porpoise problem"
mandatory, 1976-82, MFR 46(3):20
voluntary, 1971-75, MFR 46(3):20
Ocean 250 Barge
gasoline spill in Block Island Sound, S 751
Ocean condition research
remote sensing data, MFR 46(3):1
Ocean habitat, FB 82:149
Ocean pout—see Pout, ocean
Ocean Weather Station V
Pacific Ocean
water structure studies, 1966-71, S 742
Ocean-atmosphere
California Current Region
heat exchange components, S 763
Oceanic salmonid fishery
genetic stock identification methods for use in fishery management, MFR 47(1):1
Oceanographic station data
Ocean Weather Station V
analysis, S 742
depth, S 742
harmonic analysis, S 742
heat budget estimates, S 742
salinity, S 742
temperature, S 742
water structure studies, S 742
Octopus, two-spotted, FB 82:68
Octopus bimaculatus—see Octopus, two-spotted
Octopus sp.
seamount fishery research, central North Pacific, MFR 46(2):13
Odobenus rosmarus divergens—see Walrus, Pacific
Odontaspis taurus—see Shark, sand tiger
Offshore hard-bottom habitats, TR 18
Okthopristis chrysoptera—see Pigfish
Oligocottus snyderi—see Sculpin, fluffy
Omega-3 long chain fatty acid
fish oil concentrates, MFR 46(2):61
serum cholestrol effects, MFR 46(2):61
Ommastrephes bartramii
identification, TR 17
Ommastrephes bartramii—see Squid, flying
Oncorhychus nerka—see Salmon, sockeye
Oncorhynchus gorbuscha—see Salmon, pink
Oncorhynchus keta—see Salmon, chum
Oncorhynchus kisutch—see Salmon, coho; Salmon, silver
Oncorhynchus nerka—see Salmon, sockeye
Oncorhynchus tshawytscha—see Salmon, chinook; Salmon, king
Onslow Bay, North Carolina, FB 81:405
Onychoteuthis banksii
identification, TR 17
Onychoteuthis borealijaponicus—see Squid, nail
Opah
guide to fishes taken in longlining, C 435
Opakaka—see Snapper, pink
Opakapaka—see Snapper, Hawaiian
Ophiodon elongatus—see Lingcod
Opisthonema mediastre—see Herring, middling thread
Opisthonema oglinum—see Herring, thread
Oplegnathus fasciatus—see Parrotfish
Orcinus orca—see Whale, killer
Oregon
anchovy, northern
reproduction off, FB 78:603
spawning biomass and early life in northern subpopulation, FB 78:855
fishery, FB 82:270
flatfishes
feeding ecology of 0-age at nursery ground, FB 80:555
foreign fisheries off, 1977-78, MFR 43(5):36
Pacific Ocean, N.E.
sculpin larvae, C 430
Psychrolutes phrictus
additional records, FB 78:169
rockfish
development of larvae and juveniles off, FB 79:231
distribution and abundance, 1977, MFR 42(3-4):2
rockfish, widow
fecundity off coast, FB 80:881
rockfish, yellowtail
length and age composition, 1977, MFR 42(3-4):54
salmon, coho
phenotypic differences among hatchery and wild stocks, FB 80:105
salmon, juvenile
food habits in coastal zone, June 1979, FB 80:841
sole, butter
eggs and larvae off, FB 78:401
sole, Dover
feeding selectivity, FB 79:749
sole, English
growth during metamorphosis, FB 80:150
Oregon coast
weather, FB 81:456
Oregon II, FB 81:396
Organochlorine residues
fishes, northwest Atlantic Ocean and Gulf of Mexico, FB 78:51
Ornithoteuthis volatilis
identification and estimation of size from beaks, TR 17
Orthopristis chrysoptera—see Pigfish
Orwell Brook, New York
production and growth of subyearling
salmon, chinook, FB 78:549
salmon, coho, FB 78:549
steelhead, FB 78:549
Osmeridae
ichthyoplankton off Alaska, TR 20
Osmerus mordax—see Smelt, rainbow

Osteological specimens
pinnipeds, TR 12
sea otters, TR 12
Osteology
osteology, phylogeny, and higher classification, C 434
Ostraciidae—see Boxfishes
Ostracion diaphanum—see Boxfish, spiny
Ostrea edulis—see Oyster, European flat
Otoliths
alewives, FB 83:696
anchovy, northern, FB 81:743
cod, Atlantic, FB 81:833
daily growth increments, FB 82:165
dolphin, FB 81:906
dolphin, Fraser's, FB 81:284, 286
growth increments, FB 82:237
haddock, FB 81:883
halibut, Greenland, FB 81:600
herring, Atlantic, FB 83:289
herring, gold spot, FB 81:588
herring, Pacific, FB 82:113
increment counting, scanning electron microscope, FB 82:434
increment formation rate, FB 82:237, 240
juvenile fish, FB 82:240
larvae, FB 82:240
midshipman, plainfin, FB 82:164, 165
multiple regression models, FB 83:103
rockfish, FB 83:103
sablefish, FB 83:475
morphological features useful in age determination, FB 79:360
salmon, chinook, FB 83:81, 91
seal, harbor, FB 81:293, 298
snapper, Hawaiian, FB 81:523
tetracycline marking, FB 82:208, 237
tilefish, FB 81:752
trout, rainbow, FB 83:81
tuna, bluefin, FB 82:434
Otter, sea, FB 81:501, 510
annual reproduction, dependency period, and apparent gestation period in two Californian, FB 79:347
Monterey Harbor, California
observations on digging for clams, FB 78:159
ostelogical specimens, TR 12
Otter trawl
catches, FB 81:543
species, FB 81:548
Outer Continental Shelf Envirnmental Assessment Program (OCSEAP)
king crab recruitment studies, MFR 45(10-12):15
Oxygen, dissolved
annotated bibliography on hypoxia, TR 21
Oxylebius pictus—see Greenling, painted
Oyster, American—see also Crab, mud
as reservoirs of viral finfish pathogens, MFR 46(3):15
parasites and pathogens, TR 25
Oyster, eastern
introduction to Pacific coast of North America, MFR 42(12):3
Oyster, European flat
as reservoirs of viral finfish pathogens, MFR 46(3):15
Oyster, Pacific
increasing seed abundance, MFR 45(3):15
Oyster, Pacific (continued)
introduced from Japan to
Australasia, MFR 42(12):3
France, MFR 42(12):3
Pacific coast of North America, MFR 42(12):3
Oyster, Portuguese
introduced from Portugal and Spain to France, MFR 42(12):2
Oyster drill—see Drill, oyster
Oyster shucking
economic analysis of "steam shock" and "pasteurization" processes
assumptions and benefits analysis, MFR 44(5):21
cost estimation, MFR 44(5):22
pasteurized product, MFR 44(5):24
sensitivity analysis, MFR 44(5):23
Oysters, exotic
review of introductions
adaptions of marine organisms to oceanic and continental climates, MFR 42(12):2
attitudes and rationales for new introductions, MFR 42(12):7
biological planning for new importations, MFR 42(12):6
competition with native species, MFR 42(12):7
history of major introductions, MFR 42(12):2
importance of races, MFR 42(12):8
importation categories, MFR 42(12):2
invertebrate species associated with western European waters, MFR 42(12):4
mollusks associated with, Pacific coast of North America, MFR 42(12):4
preimportation studies needed and controls required, MFR 42(12):9
role in spreading diseases and parasites, MFR 42(12):5
role of hatcheries, MFR 42(12):8

P

Pacific, eastern tropical
boundaries for
fishery, purse seine, TR 28
stock assessment, TR 28
geographical variation, TR 28
Pacific Ocean
climatic changes, FB 81:363
tunas
distribution, 1950-78, S 744
Pacific Ocean, central
squid
four new species, FB 80:703
Pacific Ocean, eastern North
anglerfishes, ceratioid
description of new species, FB 78:59
marine mammal predation on squids, MFR 44(2):1
Pacific Ocean, eastern tropical
cephalopods
beak key with relationships between beak dimensions and size, FB 80:357
dolphin mortality
estimating and monitoring incidental in tuna purse seine fishery, FB 80:396
Halobates species
distribution and abundance, FB 78:579

Pacific Ocean, Indo-West
clupeid fishes
bomolochid copepods parasitic on eyes of, FB 78:716
Pacific Ocean, North
white Dall's porpoise sighted, FB 80:401
Pacific Ocean, northeast
hexagrammid development, TR 2
identification guide to whales, dolphins and porpoises, C 444
sculpin larvae from marine and brackish waters, C 430
water structure at Ocean Weather Station V, 1966-71, C 742
Pacific Ocean, northeastern
fishes and shellfishes
chlorinated hydrocarbon levels, MFR 43(1):1
sculpin larvae
current knowledge with notes on intergeneric relationships, FB 79:103
tomcod, Pacific
larval development, FB 78:923
Pacific Ocean, southwest
marlin, black
migration, S 772
Pagrus major—see Sea bream, red
Pagrus pagrus—see Fish, reef
Palau
Helen Reef, Western Caroline Islands
tridacnid clam stocks, MFR 42(2):8
Pandalidae—see Shrimp
Pandalus borealis—see Shrimp, northern pink; see also shrimp, pink
Pandalus jordani—see Shrimp, pink; Shrimp, Pacific
Pandalus montagui—see Shrimp
Pandalus platyceros—see Prawn, spot
Pandalus spp.—see Shrimp, pandalid
Panopeus herbstii—see Crab, mud
Panopeus obesus—see Crab, mud
Panulirus argus—see Lobster, spiny
Panulirus cygnus—see Lobster, rock
Panulirus marginatus—see Lobster, spiny
Papua New Guinea
tuna fishery developments, MFR 45(10-12):47
tuna, skipjack
estimated growth of surface-schooling, FB 79:517
tuna, yellowfin
estimated growth of surface-schooling, FB 79:517
Paralichthys dentatus—see Flounder, summer
Paralichthys lethostigma—see Flounder, southern
Paralichthys oblongus—see Flounder, fourspot
Paralichthys sp.—see Flounder
Paralithodes camtschatica—see Crab, king
Paralithodes platypus—see Crab, blue king
Paralithodes spp.—see Crab, king; Crab, Pacific king
Parasite studies
amphipods, FB 83:497
copepods, FB 81:227
fish, marine, TR 25
fishes of Whale Ridge, TR 25
Grenadier, rock, TR 25
indicators of fish ecology, TR 25
rockfish, olive, FB 82:530
sailfish in the Indian Ocean, TR 25
tuna, skipjack, FB 83:343
Parasites
Alaskan fish hosts
published records, S 760
marine and estuarine fishes of California, Oregon, and Washington
summary of published records, S 777
myxosporean
effects of exploitation on Pacific whiting, MFR 47(2):56, 57
rockfish, FB 82:530
Parental biomass
age composition, FB 81:723, 725, 726
catch weight, FB 81:724
management implications, FB 81:726
sensitivity analysis, FB 81:727
tuna, northern bluefin, FB 81:726
Parophrys vetulus—see Sole, English
Parrotfish
propagation in aquaculture, TR 10
Particle counter, zooplankton, FB 82:142
Passamaquoddy Bay—see Gulf of Maine
Pathogens, finfish
bioaccumulation, MFR 46(3):14
depuration, MFR 46(3):14
epizootics, MFR 46(3):14
infectious hematopoietic necrosis, MFR 46(3):14
IPN molluscabirnaviruses, MFR 46(3):15
JOV-1, MFR 46(3):15
management implications, MFR 46(3):16
potential infections, bivalves, MFR 46(3):15
chum salmon virus (CSV), MFR 46(3):15
infectious hematopoietic necrosis virus (IHNV), MFR 46(3):16
salmonid IPN piscibirnaviruses, MFR 46(3):16
13p2 reovirus, MFR 46(3):15
Pathology—see Disease
PCB's—see Contamination
Pea digger—see Clam rake
Peamouth, FB 81:815
Peconic Bays, New York
fish spawning, daily time of, FB 78:455
Pen-rearing
salmon, Pacific, in San Francisco Bay, MFR 47(4):26
Penaeus aztecus—see Shrimp, brown
Penaeus brasiliensis—see Shrimp, pink-spotted
Penaeus duorarum—see Shrimp, pink
Penaeus japonicus—see Shrimp, Kuruma
Penaeus marginatus—see Shrimp, aloha
Penaeus notialis—see Shrimp, pink
Penaeus schmitti—see Shrimp, white
Penaeus setiferus—see Shrimp, white
Penaeus subtilis—see Shrimp, brown
Pendleton Artificial Reef-see Reefs, artificial
Pentaceros richardsoni—see Armorhead, pelagic
Peprilus simillimus—see Butterfish, Pacific
Perch, kelp, FB 82:37
Perch, ocean
groundfish processing, Massachusetts, MFR 45(1):1
Perch, Pacific ocean, FB 82:270
abundance, size and age composition, and growth
age and size composition, MFR 42(3-4):41, 43
biomass, MFR 42(3-4):41, 42
catch composition, MFR 42(3-4):41, 42
growth, MFR 42(3-4):42, 44

Perch, pile
Puget Sound, Washington
foraging on an artificial reef, MFR 44(6-7):40
Perch, sand
biological data, TR 26
fishery, TR 26
Perch, shiner, FB 81:815
Perch, silver
comparison with earlier descriptions, FB 78:132
comparison with other larval Sciaenidae, FB 78:134
description, FB 78:122
spawning seasons and areas, FB 78:133
Perch, white
biology in Hudson River estuary
growth, FB 80:602
length conversions, FB 80:602
length-frequency and age distribution, FB 80:602
length-weight relationship, FB 80:604
marsh habitat, FB 82:457
reproduction, FB 80:604
sex ratio, FB 80:606
time of annulus formation, FB 80:601
Peruvian anchoveta fishery, FB 81:363, 365
Petromyzon marinus—see Lamprey, sea
Philippine Archipelago
anglerfishes, ceratioid
descriptions of five new species, FB 78:379
Philippine Islands
squid fishery, MFR 43(1):13
Phoca fasciata—see Seal, ribbon
Phoca hispida—see Seal, ringed
Phoca largha—see Seal, spotted
Phoca vitulina richardsi—see Seal, harbor
Phocoena phocoena—see Porpoise, harbor
Phocoenoides dalli—see Porpoise, Dall's
Phoronida
life history, distribution and abundance in the New York Bight, S 766
Phyllodocida
life history, distribution and abundance in the New York Bight, S 766
Phylogeny
osteology, phylogeny, and higher classification, C 434
Physeter macrocephalus—see Whale, sperm
Phytoplankton
New York Bight
sampling, TR 5
nutrient environment in Georges Bank and adjacent waters in 1979, TR 32
vertical structure off southern California, FB 83:151
Pigfish
biological data, C 449
Cape Fear River Estuary, N.C, FB 81:847
haemulids, FB 81:853
larvae, FB 81:847, 853
morphology, FB 81:852
northern Gulf of Mexico, FB 81:847
Pilotfish
observations, warm water periods, California, MFR 45(4-6):27
Pinfish, FB 82:378; see also Fish, seagrass
biological data, TR 23
Pinfish (continued)
feeding ecology
variation and functional responses, FB 78:337
Pinfish, spottail
biological data, TR 19
Pinnipeds
California coastal waters
predation by white shark, FB 80:891
distribution and density over Bering Sea pack ice, TR 12
osteological specimens, TR 12
predation by sharks at Farallon Islands, FB 78:941
Pinnipeds, sea lions, California—see Sea lions, California
Pisces: Sparidae—see Pinfish
Placopecten magellanicus—see Scallop, deep-sea; Sea scallop, Atlantic
Plaice, American
Atlantic Ocean, N.W.
food habits, S 749
food of juvenile, FB 79:204
Plankton
ichthyoplankton off the Oregon coast, FB 83:611
New York Bight, sampling, TR 5
vertical structure off southern California, FB 83:151
Platichthys stellatus—see Flounder, starry
Plectognath fishes
osteology, phylogeny, and higher classification, C 434
Plectranthias kelloggi—see Grouper
Pleurogrammus monopterygius—see Mackerel, Atka Hokke
Pleuronectidae
Bering Sea, Eastern
demersal fish resources, S 754
ichthyoplankton off Alaska, TR 20
Podonema longipes
indicators of population structure, TR 25
Poecilia mexicana—see Mollie
Pogonias cromis—see Drum, black
Pogonichthys macrolepidotus—see Splittail
Poisons—see Ciguatera fish poisoning
Pollachius virens—see Pollock
Pollock, FB 81:124, 125, 131
Atlantic Ocean, N.W.
food habits, S 740
compared with hake for surimi processing, MFR 46(2):45
food of juvenile, FB 79:203
groundfish landings and processing, Massachusetts, MFR 45(1):1, 5, 8
stock recovery trends, MFR 45(10-12):18
Pollock, walleye
Alaskan waters, FB 81:890
Bering Sea
density index procedure for assessing abundance, S 743
crustaceans, major food, FB 81:639
domestic fish utilization, MFR 45(7-9):21
diets, FB 81:637
embryos, FB 81:891
fish as food, FB 81:639
incubators, FB 81:891
larval development in northeast Pacific Ocean
compared with Pacific tomcod, FB 78:923
minced fish flesh
nutritive value, MFR 45(7-9):34
percent composition, MFR 45(7-9):34

Pollock, walleye (continued)
minced fish flesh (continued)
sensory attributes, MFR 45(7-9):34
recruitment studies, MFR 45(10-12):4
southeastern Alaska, FB 81:637
viable eggs only, FB 81:891
Pollution studies
macrophage accumulations and fish health, TR 25
Polychaeta
life history, distribution and abundance in the New York Bight, S 766
Polychlorinated biphenyls
concentration, FB 81:392
confirmation, FB 81:392
contamination, FB 81:389, 395
embryo toxicity, FB 81:389
in fatty tissues of aquatic and land animals, FB 81:389
Polyunsaturates
in fish and fish oil, MFR 46(2):60
Pomatomus saltatrix—see Bluefish
Pomfrets
guide to fishes taken in longlining, C 435
Population dynamics
Long Island Sound, eastern
characteristics of American lobster population, S 770
Population studies—see also Catch estimation
Bay of Fundy-Gulf of Maine, FB 82:121
clam, FB 82:537
confidence limits for projections, FB 83:207
crab, Dungeness, FB 82:469, 471
crab, horseshoe, FB 82:383
dolphin reactions to survey vessels, FB 83:187
drum, banded, FB 82:353, 359
estimates using juvenile shrimp, FB 83:677
fish, kelp forest, FB 82:37
fish, seagrass, FB 81:837
growth rate sensitivities, FB 82:537
kingfish, southern, FB 82:430
lobster, spiny, FB 82:693, 694
mathematical techniques, FB 82:449
porpoise, harbor, FB 81:910
seal, harbor, FB 81:291, FB 82:440
shrimp, mantis, FB 82:420
shrimp, rock, FB 82:715
snapper, deepwater, FB 82:703
snapper, pink, FB 82:703
sole, yellowfin, FB 81:671
whale, gray, FB 81:267
Porcupine fishes
osteology, phylogeny, and higher classification, C 434
Porgy
propagation in aquaculture, TR 10
Porgy, longspine
reproduction, movements, and population dynamics
age determination and growth using length-frequency analysis, FB 80:534
age determination using scales, FB 80:534
maturation and spawning seasonality, FB 80:525
mortality and postspawning survival, FB 80:536
movements, spawning areas, and diel variation in catch, FB 80:531
size, maximum, and lifespan, FB 80:536
Porgy, longspine (continued)
reproduction, movements, etc. (continued)
total weight-total length, girth-total length, and length-length relationships, FB 80:537
Porgy, whitebone
biology in South Atlantic Bight
age and growth, FB 80:866
distribution and abundance, FB 80:864
reproduction, FB 80:868
South Carolina commercial landings, FB 80:871
Porichthys notatus—see Midshipman, plainfin
Porpoise
reducing mortality in tuna purse seining, TR 13
Porpoise, Dall's
off California and Washington
prey distribution, FB 78:955
prey size, FB 78:957
prey species, FB 78:955
stomach capacity of predators, FB 78:955
Pacific Ocean, N.E. and Arctic waters
guide to identification, C 444
white, sighted in North Pacific, FB 80:401
Porpoise, harbor
abundance, estimate, FB 81:910, 913
Campollo Island, FB 81:910
Charlotte County, New Brunswick, Canada, FB 81:660
distribution and movements in Fish Harbour, FB 83:427
herring weirs, FB 81:660
movements and activities, FB 83:543
Pacific Ocean, N.E. and Arctic waters
guide to identification, C 444
population, FB 81:661
survey methods, FB 81:910
weir entrapment questionnaire, FB 81:661
western North Atlantic, FB 81:910
Porpoises
Pacific Ocean, N.E. and Arctic waters
guide to identification, C 444
Port Hardy, British Columbia
eel, wolf
migration of juvenile from, to Willapa Bay, Washington, FB 80:650
Port Vila, Vanuatu
deepwater shrimp resources, MFR 43(12):10
Potassium sorbate
cod, Atlantic, preservation studies, MFR 47(3):26
Potato rake—see Clam rake
Pout, ocean
Bay of Fundy-Gulf of Maine, FB 82:132
Gulf of Maine
trophic relationships, FB 79:775
Pout, ocean
Atlantic Ocean, N.W.
food habits, S 740
Power plant impact assessment
adult loss, FB 81:613
application, example, FB 81:617
criteria, FB 81:617
fishery management, FB 81:615, 618
larval growth, FB 81:614
long-term impact, FB 81:614
natural mortality, FB 81:614

Power plant impact assessment (continued)
short-term impact, FB 81:614
spawned eggs, FB 81:614
Prawn, freshwater
breeding and domestication, TR 16
frozen storage stability of whole and headless
acceptability, MFR 43(12):20
chemical analyses, MFR 43(12):19
flavor and appearance, MFR 43(12):19
microbial analyses, MFR 43(12):19
physical analyses, MFR 43(12):19
sensory evaluation, MFR 43(12):18
statistical analysis, MFR 43(12):20
texture, MFR 43(12):19
Prawn, larval
diet effects on laboratory culture, TM F/NWC-68
Prawn, spot
factors controlling growth and survival of cultured in Puget Sound, Washington
environmental data, FB 78:783
juveniles, FB 78:783
molting, FB 78:787
yearlings, FB 78:785
Predation—see Mortality rates
Preservation
salmon
use of high concentration of CO_2 in modified atmosphere, MFR 44(3):7
Preservation studies
anchovy, northern, TR 36
cod, Atlantic, shelf life extension, MFR 47(3):26
dogfish, spiny, MFR 47(1):48
ice requirements for chilled sea water systems, MFR 47(4):42
mackeral, atka, MFR 47(1):73
viscosity as quality control for fish, MFR 47(3):52
Pribilof Islands
management of northern fur seals, 1786-1981, TR 4
Prionace glauca—see Shark, blue
Prionotus spp.—see Searobin
Pristipomoides filamentosus—see Snapper, Hawaiian; see Snapper, pink
Pristipomoides sieboldii—see Snapper, pink
Pristipomoides zonatus—see Snapper, Brigham's
Processes and Resources of the Bering Sea (PROBES)
walleye pollock life history studies, MFR 45(10-12):13
Processing studies
sand lance, MFR 47(1):78
Promethichtyhys promethus—see Mackerel, snake
Proteus mirabilis
isolated from skipjack tuna, MFR 45(4-6):40
Proteus morganii
histamine production in tuna, MFR 45(4-6):35
Protozoa
parasites and pathology of marine fish, TR 25
Protozoa: Sarcodina
benthic foraminifera of the nearshore and shelf
distribution, C 439
ecology, C 439
key to species, C 439
Proximate chemical composition
coastal (southeast U.S.) herrings, MFR 46(2):20
fish sticks, MFR 45(7-9):34
Proximate chemical composition (continued)
herring, thread, MFR 45(4-6):46
mackerel, chub, MFR 45(4-6):46
Red Sea fishes, MFR 46(3):71
sardine, Spanish, MFR 45(4-6):46
weakfish, MFR 45(7-9):28
Psettichthys melanostictus—see Ichthyoplankton
Pseudaxine mexicana
taxonomic position, TR 25
Pseudomonas
in freshly caught marine fish, MFR 45(4-6):35
Pseudopleuronectes americanus—see Flounder, winter
Pseudopleuronectes sp.—see Flounder
Pseudorca crassidens—see Whale, false killer
Psychrolutes phrictus
additional records from eastern Bering Sea and off Oregon, FB 78:169
Pterosagitta draco
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Pterygioteuthis giardi
identification, TR 17
Puffers
osteology, phylogeny, and higher classification, C 434
Puget Sound
prawn, spot
factors controlling growth and survival of cultured, FB 78:781
ratfish
depth distribution and seasonal diel movements, FB 78:816
salmon, Atlantic, culture of, MFR 43(2):1
Purse seine fishery
dolphin-yellowtail tuna, FB 81:1
Menhaden, Atlantic
sampling statistics, TR 9
Purse-seining, tuna
dolphin mortality reduction research, MFR 46(3):18
reducing porpoise mortality, TR 13

Q

Quahog, ocean
acetate peel images, FB 82:1
age, FB 82:2, 18
age and growth studies, MFR 46(2):28
age-size, FB 82:254
gonad condition, FB 82:259
growth, FB 82:2, 3, 16
growth in Middle Atlantic Bight
field studies, FB 80:23
length-weight studies, FB 80:28
mark-recapture studies, FB 80:24
shell banding studies, FB 80:26
growth increments, FB 82:251
sex determination, MFR 46(2):32
sexual maturation, FB 82:262
shell microstructure, FB 82:1, 13, 16
southern New England shelf
seasonal cycle of gonadal development, FB 80:315
validation of annual periodicity, MFR 46(2):29
Queenfish
food habits, migration, and abundance, FB 83:171

Queenfish (continued)
ovarian cycling frequency and batch fecundity
analysis of fish and ovaries, FB 79:548
annual egg production, FB 79:554
batch fecundity, FB 79:551
body size and time of spawning, FB 79:549
egg production and fish body size, FB 79:556
egg size, FB 79:555
field sampling, FB 79:547
ovarian cycling, FB 79:550
production cycles, timing of reproduction, and egg size, FB 79:557
relative fecundity, FB 79:554
residual ova, FB 79:554
sex ratio, FB 79:551
size at sexual maturity, FB 79:555
spawning frequency and annual fecundity, FB 79:557
spawning season and gonad maturation, FB 79:549
temporal patterns of spawning, FB 79:556
vertical stratification off southern California, FB 80:895

R

Rachycentron canadum—see Cobia
Raja erinacea—see Skate, little
Ratfish
Puget Sound, Washington
depth distribution and seasonal diel movements, FB 78:816
Ray, cownose, FB 82:378
Recruitment
crab, Dungeness, FB 82:478
drum, banded, FB 82:229, 344, 351
fish, reef, FB 81:680
lobster, American, FB 82:244
mackerel, king, FB 81:718
Recruitment studies—see Large Marine Ecosystem
Red drum
spawning experiments, TR 10
Redfish
larvae distribution patterns, MFR 45(10-12):19
Reef fisheries—see Fish, reef
Reefs, artificial
coal-waste artificial reef program
area description, MFR 44(6-7):17
blocks and reef building, MFR 44(6-7):17
epifaunal colonization, MFR 44(6-7):19
habitation by fish, MFR 44(6-7):20
physical and chemical results, MFR 44(6-7):17
studies, early, MFR 44(6-7):16
toxic potentials, MFR 44(6-7):20
early development of Pendleton Artificial Reef
biological observations, MFR 44(6-7):54
biomanipulations and management, MFR 44(6-7):56
design and construction, MFR 44(6-7):53
establishment of ecological studies, MFR 44(6-7):54
site selection, MFR 44(6-7):53
effects on resident flatfish populations, MFR 44(6-7):45
foraging on in Puget Sound, Washington
feeding observations, MFR 44(6-7):40,41
field and laboratory, MFR 44(6-7):38
perch, pile, MFR 44(6-7):40
rockfish, quillback, MFR 44(6-7):41
Reefs, artificial (continued)
foraging on in Puget Sound, Washington (continued)
seaperch, striped, MFR 44(6-7):40
study area, MFR 44(6-7):38
New York Bight and Charleston, South Carolina
food of fish collected on, MFR 44(6-7):49
Pendleton Artificial Reef planning, MFR 44(6-7):25
Pendleton Artificial Reef preconstruction activities, MFR 44(6-7):25
resource management option for siting coastal power stations in southern California
construction, MFR 44(6-7):26
management, MFR 44(6-7):26
toward a new era in fisheries enhancement, MFR 44(6-7):2
use of designed and prefabricated in United States
Japanese fiberglass reinforced plastic, MFR 44(6-7):9
Japanese-style concrete, MFR 44(6-7):5
lobster, MFR 44(6-7):7
uses, potential, MFR 44(6-7):13
Reinhardtius hippoglossoides—see Halibut, Greenland
Remote sensing
applications of satellite data for fisheries management, MFR 46(3):1
Reproduction
anchovy, northern, TR 36
prawn, freshwater, TR 16
Reproductive biology
bass, striped
artificial propagation, TR 10
clam, soft-shell, FB 83:403
cod, Arcto-Norwegian, FB 82:141
crab, rock, FB 81:357
croaker, white, FB 82:180
dolphin, spinner, FB 82:224
dolphins, spotted, FB 83:657
drum, banded, FB 82:227, 337
flounder, yellowtail, FB 81:341
grunts, French, FB 83:413
halibut, Greenland, FB 81:601
herring, gold spot, FB 81:591
lobster, FB 82:529
lobster, American, FB 82:242, 244
mummichog, FB 83:467
mussel, blue, FB 81:733
propagation in aquaculture, TR 10
quahog, ocean, FB 82:253, 259
sardine, Pacific, FB 85:443
sea urchin, red, MFR 47(3):5, 6
shark, Atlantic sharpnose, FB 81:61
shark, sand tiger, FB 81:204
shrimp, mantis, FB 82:418, 421
silverside, Atlantic, FB 83:331
spawning and maturation of marine finfish, TR 10
splittail, FB 81:650
squid, Pacific market, FB 82:445
tilefish, blueline, FB 81:553
weakfish, FB 82:501
whiting, Pacific, MFR 47(2):3, 4, 12, 31, 35, 76
Reproductive studies
drill, oyster, TR 35
flounder, southern, TR 10
perch, sand, TR 26

Reproductive studies (continued)
pinfish, spottail, TR 19
shrimp, pink, TR 30
sturgeon, shortnose, TR 14
urchin, heart, TR 33
urchin, sea, TR 33
walrus, Pacific, TR 12
Resource Assessment Investigation of the Mariana Archipelago, MFR 47(4):19
Resources, pelagic
California, 1963-78, S 762
Rhinoptera bonasus—see Ray, cownose
Rhizoprionodon terraenovae—see Shark, Atlantic sharpnose
Rhode Island
lobster, American
movements of tagged off, FB 78:771
Rhomboplites aurorubens—see Fish, reef; Snapper, vermilion
Ribbonfish
king-of-the-salmon, juvenile, FB 81:161
Rockfish
age determination, FB 83:103
black rockfish, *Sebastes melanops*, FB 81:916
capture, FB 81:918
copper rockfish, *Sebastes caurinus*, FB 81:916
diet variations, FB 82:273
distribution and abundance, 1977
California, MFR 42(3-4):2
Oregon, MFR 42(3-4):2
Washington, MFR 42(3-4):2
distribution of prey, FB 82:288
food habits, FB 82:272, 275, FB 83:531
fork length/total length, FB 82:251
found as prey species in sea lion scats, FB 82:68
larvae identification, MFR 45(10-12):13
maturation and fecundity of four species, MFR 42(3-4):74
measurement, FB 82:249
morphology and distribution patterns of several species, MFR 42(3-4):80
northern Puget Sound, Washington, FB 81:916
quillback rockfish, *Sebastes maliger*, FB 81:916
seamount fishery research, central North Pacific, MFR 46(2):4
standard length/fork length, FB 82:250
stock separation of five species using naturally occurring biochemical genetic markers
electrophoresis applicability to marine fisheries, MFR 42(3-4):72
genetic data, MFR 42(3-4):67
species relationships, MFR 42(3-4):70
trawl surveys, statistical considerations of design
comparisons of random, stratified random, and systematic sampling, FB 78:660
examination of trade offs between tow length and number of tows, FB 78:667
yellowtail rockfish, *Sebastes flavidus*, FB 81:916
Rockfish, calico
fin erosion, FB 83:195
Rockfish, canary, FB 82:270
maturation and fecundity, MFR 42(3-4):74
seasonal changes in fat and gonad volume, FB 83:299
size and age composition and growth, MFR 42(3-4):57
Rockfish, darkblotched, FB 82:270
Rockfish, olive
growth, reproduction, and food habits, off central California
age and growth, FB 79:535
age determination, FB 79:534
food habits, FB 79:535, 542
juveniles, FB 79:541
length-weight relationships, FB 79:537
maturation and reproduction, FB 79:534, 537
parasites, FB 82:531
seasonal patterns of infection, FB 82:534
size, FB 82:530
Rockfish, Pacific
habitat and nrusery grounds in southeastern Alaska, MFR 43(7):13
Rockfish, quillback
Puget Sound, Washington
foraging on an artificial reef, MFR 44(6-7):41
Rockfish, sharpchin
development of larvae and juveniles off Oregon
distinguishing features, FB 79:247
fin development, FB 79:249
general development, FB 79:248
identification, FB 79:244
literature, FB 79:243
morphology, FB 79:249
occurrence, FB 79:253
pigmentation, FB 79:251
scale formation, FB 79:251
spination, FB 79:249
Rockfish, shortbelly
resource off California
development potential of fishery, MFR 42(3-4):39
growth, MFR 42(3-4):34
larval and juvenile stages, MFR 42(3-4):34
length-weight, MFR 42(3-4):35
management options for fishery development, MFR 42(3-4):39
maturation, fecundity, and sex composition, MFR 42(3-4):35
movements, MFR 42(3-4):35
reaction to fishing, MFR 42(3-4):37
relationships with other species, MFR 42(3-4):36
survey results with regard to fishing, MFR 42(3-4):38
Rockfish, splitnose, FB 82:270
effects of photoperiod and temperature on laboratory growth of juvenile, FB 79:789
size and age composition and growth, MFR 42(3-4):57
Rockfish, widow
development of larvae and juveniles off Oregon
distinguishing features, FB 79:235
fin development, FB 79:238
general development, FB 79:235
identification, FB 79:233
literature, FB 79:233
morphology, FB 79:236
occurrence, FB 79:242
pigmentation, FB 79:240
scale formation, FB 79:239
spination, FB 79:239
fecundity off Oregon coast, FB 80:881
seasonal changes in fat and gonad volume, FB 83:299
Rockfish, yellowtail, FB 82:270
length and age composition, 1977
California, MFR 42(3-4):54

Rockfish, yellowtail (continued)
length and age composition (continued)
Oregon, MFR 42(3-4):54
Washington, MFR 42(3-4):54
maturation and fecundity, MFR 42(3-4):74
seasonal changes in fat and gonad volume, FB 83:299
Rockling, fourbeard
Atlantic Ocean, northwest
food habits, S 740
food of juvenile, FB 79:204
Roe
red sea urchin fishery, MFR 47(3):1
RV *Cayuse*, FB 81:456
RV *Dolphin*, FB 81:538
RV *Onslow Bay*, FB 81:554

S

Sablefish, FB 82:68
gear, FB 81:416
growth, FB 83:475
migration, FB 81:415, 417
northeastern Pacific Ocean, FB 81:415
recruitment studies, MFR 45(10-12):16
tagging, FB 81:415, 416
Sagitta bipunctata
chaetognatha of the Caribbean Sea and adjacent areas
classification, TR 15
key to species, TR 15
Sagitta decipiens
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta enflata
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta friderici
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta helenae
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta hexaptera
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta hispida
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta lyra
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta macrocephala
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta megalophthelma
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta minima
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta planctonis
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta serratodentata
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagitta tenuis
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Sagittae
daily growth increments indicate age and growth
tuna, skipjack, FB 79:151
tuna, yellowfin, FB 79:151
Sail-assisted fishing vessels
economic appraisal of, MFR 45(7-9):50
—see also Fishing vessels, commercial
Sailfish
morphological features of otoliths useful in age determination, FB 79:360
parisitofauna in the northwest Indian Ocean, TR 25
size and possible origin from eastern Atlantic ocean, FB 78:805
Salmo gairdneri—see Steelhead; Trout, rainbow
Salmo salar—see Salmon, Atlantic
Salmon
farming in Japan, TR 27
freshwater enhancement, C 447
migration and ecology in early marine life, TR 27
recruitment studies, MFR 45(10-12):4
soybean meal in diet, C 447
underwater separation methods for juvenile salmonids at hydroelectric dams, MFR 47(3):38
volcanic ash effects on juvenile smolts, MFR 45(2):9
Salmon, Atlantic
culture in Puget Sound
disease and treatment, MFR 43(2):7
freshwater growth and survival, MFR 43(2):4
freshwater rearing, MFR 43(2):2
incubation, MFR 43(2):2
saltwater growth and survival, MFR 43(2):6
saltwater rearing, MFR 43(2):3
seawater adaptation, MFR 43(2):5
sexual maturation, MFR 43(2):8
Norwegian production and farming efforts, MFR 46(3):44
Salmon, chinook
areal distribution of marked Columbia River Basin
factors that limit data use, MFR 43(12):5
marine distribution north and south of Columbia River, MFR 43(12):8
marine, river, and hatchery recoveries, MFR 43(12):9
marking (1971-73), MFR 43(12):2
recovery (1972-77), MFR 43(12):4

Salmon, chinook (continued)
California, southern and central coast
sea-surface temperature effects on sports fishing, S 759
compared with coho salmon abundance, Columbia River, MFR 46(3):36
establishment of nonindigenous runs in Wind River drainage of Columbia River, 1955-63
adult trapping and hauling, FB 79:510
catch contribution, FB 79:513
hatchery operations, FB 79:511
hatchery returns-juvenile releases, FB 79:512
Shipperd Falls counts, FB 79:512
Shipperd Falls fishway, FB 79:509
spawning ground surveys, FB 79:513
Wind River spring chinook salmon transfers, FB 79:514
food habits of juvenile in Oregon coastal zone, June 1979
diet overlap, FB 80:847
occurrence and abundance of prey taxa, FB 80:846
fisheries and enhancement in Alaska, TR 27
genetic stock identification methods, MFR 47(1):4, 5
influence of Little Goose Dam on upstream movements of adult, FB 78:185
juveniles, FB 81:815
lunar phase, FB 82:161
migration, FB 82:157
otoliths, FB 83:81, 91
pen-rearing in San Francisco Bay, MFR 47(4):26
production and growth of subyearling in Orwell Brook, New York, FB 78:549
recruitment studies, MFR 45(10-12):16
release time, FB 82:159, 160
satellite data applied to fisheries management, MFR 46(3):5
seawater acclimation of smolts, TR 27
size and growth, FB 82:160
smolts, transportation in Columbia River and effects on adult returns
collection and marketing of fish and fish hauling procedures, FB 78:493
comparison of results with other studies, FB 78:502
effect of transportation on homing, FB 78:503
evaluation of returning adults, FB 78:494
experimental design, FB 78:493
factors influencing assessment of data, FB 78:494
percentage adult returns of transported releases, FB 78:498
recovery of marked in commercial and sport fisheries, FB 78:500
returns of adult experimental fish to hatcheries and spawning grounds, FB 78:501
returns of adult experimental fish to Little Goose Dam, FB 78:496
size and years-in-ocean of adult experimental fish, FB 78:500
straying of experimental groups, FB 78:502
timing of adult returns, FB 78:49
storage in water systems
bacteriological measurements, MFR 47(1):69
NaCl analysis, MFR 47(1):69
sensory analysis, MFR 47(1):69
statistical analysis, MFR 47(1):69
trends in natural and hatchery production, TR 27
volcanic ash effects on juvenile smolts, MFR 45(2):9
Salmon, chum, FB 82:395
culture and release, TR 27
Salmon, chum (continued)
food habits of juvenile in Oregon coastal zone, June 1979
diet overlap, FB 80:847
occurrence and abundance of prey taxa, FB 80:843
hatchery approaches, TR 27
marking technique, TR 27
olfactory recognition of homestream waters, TR 27
population biology from Fraser River, British Columbia
age composition and sex ratios of returning adults, FB 80:815
age of return, FB 80:819
fecundity, FB 80:816
fry migrations and survival, FB 80:816
marine growth, FB 80:815
return to escapement, FB 80:820
satellite data applied to fisheries management, MFR 46(3):5
spawning, Kamchatka Peninsula, U.S.S.R., MFR 46(3):35
technical innovations, TR 27
Salmon, coho, FB 82:395
adult recoveries and NA+-K+ ATPase activity at release, MFR 44(11):11
artifical propagation in mid-Columbia River system, MFR 46(3):34
Columbia River, FB 81:143, 412
development and smoltification in the Columbia River, C 447
egg production, MFR 46(3):37
estuarine migrations of juveniles, MFR 46(3):64
feeding periodicity and diel variation in diet composition in small stream during summer, FB 79:370
fisheries, MFR 46(3):36
fishery contribution, FB 81:145
food habits of juvenile in Oregon coastal zone, June 1979
diet overlap, FB 80:847
occurrence and abundance of prey taxa, FB 80:843
homing, FB 81:144, 413, 414
juveniles, FB 81:815
life history, MFR 46(3):35
pen-rearing in San Francisco Bay, MFR 47(4):26
phenotypic differences among hatchery and wild stocks, U.S. Pacific coast
characters, morphological, FB 80:107,108
electrophoresis, FB 80:107
environmental data, FB 80:107
isozyme gene frequencies, FB 80:110
life history, FB 80:107, 110
sampling, FB 80:106
statistics, FB 80:108
stock similarity, FB 80:113
streams systems and wild stocks similarity, FB 80:117
predation on Dungeness crab, FB 83:682
production and growth of subyearling in Orwell Brook, New York, FB 78:549
recruitment studies, MFR 45(10-12):17
return rate, MFR 46(3):40
satellite data applied to fisheries management, MFR 46(3):5
seasonal runs, MFR 46(3):37
spawning, MFR 46(3):35
survival rates, FB 81:414, MFR 46(3):40
tags, FB 81:412
transport, FB 81:412
Washington and Vancouver Island
factors influencing ocean catches,S 753
Willard Hatchery, FB 81:412

Salmon, fresh
using high concentration of CO2 in modified atmosphere to preserve
analytic methods, MFR 44(3):9
atmosphere (modified) system, MFR 44(3):8
bacteriological measurements, MFR 44(3):9
chemical measurements, MFR 44(3):9
refrigerated shelf-life test, MFR 44(3):11
sample preparation and procedures, MFR 44(3):8
sensory evaluation, MFR 44(3):10
sensory tests, MFR 44(3):9
Salmon, fry
nutritional studies, TR 27
Salmon, juvenile
methods of measuring smoltification, TR 27
Salmon, king
cyclic covariation in California fisheries
California, central, total catch, FB 80:795
California, northern
catch by salmon species, FB 80:794
total catch, FB 80:793
switching effort between species, FB 80:796
Salmon, Pacific
diet change, diel, FB 82:396
estuarine migrations of juveniles, MFR 46(3):62
feeding habits, FB 82:393
genetic stock identification methods, MFR 47(1):8
prey composition, FB 82:392
scarred salmon at freshwater recovery sites in southeastern Alaska, MFR 47(1):39
vertical distribution, FB 82:392
Salmon, pink
applications of satellite data for fisheries management, MFR 46(3):5
effects of seeding density of eggs on water chemistry and fry characteristics and survival in gravel incubators
dissolved oxygen, FB 78:652
quantity and quality of fry produced, FB 78:653
temperature, pH, and total ammonia in effluent, FB 78:650
water quality and fry production, FB 78:655
estuarine migration studies, MFR 46(3):62, 64
Sashin Creek, southeastern Alaska
ammonia concentrations in redds, FB 78:809
spawning grounds, Kamchatka Peninsula, U.S.S.R., MFR 46(3):35
survival, size, and emergence of alevins after exposure to ammonia
early emergence, FB 78:644
effect of long-term exposures on fry size at emergence, FB 78:644
sensitivity of different life stages, FB 78:643
Washington and Vancouver Island
factors influencing ocean catches, S 753
Salmon, silver—see also Salmon, coho
California, southern and central coast
temperature effects on sport fishing, S 759
cyclic covariation in California fisheries
California, central, total catch, FB 80:795
California, northern
catch by salmon species, FB 80:794
total catch, FB 80:793
switching effort between species, FB 80:796
Salmon, sockeye
applications of satellite data for stock recruitment predictions, MFR 46(3):5
migration, FB 82:401, 403
occurrence of IHNV with bivalve mollusks, MFR 46(3):14
smolts, FB 82:401
spawning on Kamchatka Peninsula, U.S.S.R., MFR 46(3):35
volcanic ash effects on juvenile smolts, MFR 45(2):9
Salmon canneries
wastewater processing from two mechanized, MFR 43(1):21
Salmon smolts
volcanic ash effects, MFR 45(2):9
Salmonids
genetic selection and breeding in culture and enhancement, TR 27
tagging and tracking hatchery salmonids, TR 27
Salmonids, anadromous
environmental factors affecting smoltification and early marine survival
activation of latent infections, MFR 42(6):10
ATPase test, MFR 42(6):8
body composition, lipid-moisture dynamics, carbohydrate metabolism, MFR 42(6):3
body silvering, fin darkening, MFR 42(6):2
buoyancy adjustment, MFR 42(6):4
contaminant exposure, MFR 42(6):5
endocrine control, MFR 42(6):3
environmental stress and scale loss, MFR 42(6):10
gill parasite infestations and seawater tolerance, MFR 42(6):11
growth rate, condition factor, MFR 42(6):3
hatchery practices, fish disease treatments, MFR 42(6):7
hypoosmotic regulatory capability, salinity tolerance and preference, MFR 42(6):2
methods for optimizing time, age, and size at release, MFR 42(6):8
migratory activity, MFR 42(6):4
Na+, K+-ATPase activity, MFR 42(6):4
physiological problems during release and emigration, MFR 42(6):10
photoperiod, MFR 42(6):7
seawater challenge tests, MFR 42(6):9
size threshold, MFR 42(6):5
thyroxine monitoring, MFR 42(6):10
water temperature, MFR 42(6):6
Salmonids, juvenile
evaluation of a bypass system at Little Goose Dam
directional currents in bulkhead slot, MFR 42(6):28
fish passage through orifices placed in bulkhead slot, MFR 42(6):27
fish passage through orifices placed in operating gate slot, MFR 42(6):28
Salt marsh habitat
shrimp, brown, FB 82:325
Salvelinus alpinus—see Char, Arctic
Salvelinus fontinalis—see Trout, brook
Salvelinus malma—see Dolly varden
Samoa
fishes, annotated checklist, S 781
Sampler, flushing-coring
collect deep-burrowing infaunal bivalves in intertidal sand, FB 79:383
Sampling, commercial
Maine coast worm fishery, S 767

Sampling, probability theory
Menhaden, Atlantic
length, weight, age statistics, TR 9
Sampling methods
ichthyoplankton, FB 82:98
kelp forest, FB 82:38
Sampling statistics
Atlantic menhaden fishery, TR 9
San Francisco Bay
pen-rearing salmon, MFR 47(4):26
Sand dollars, TR 33
Sand flat, FB 81:429
Sand lance
American
as prey of red and silver hake, MFR 46(2):44
keeping quality of fresh and frozen Ammodytes sp.
chemical composition, MFR 47(1):78
fresh study, MFR 47(1):79
frozen study, MFR 47(1):80
population growth observations, MFR 45(10-12):19
Sanddab
otter trawl sampling bias of *Lironeca vulgaris*, FB 80:907
Sanddab, longfin
seasonal spawning cycle, FB 80:906
Sanddab, speckled
effect of bottom on fast start
fast-start performance, FB 79:273
kinematics, FB 79:272
Sandfish, Pacific
spawn and larvae
larval development, FB 78:961
life history notes, FB 78:959
Sandworm
life history study in Sheepscot Estuary, Maine
eggs, numbers laid, FB 80:738, 741
environmental conditions during spawning, FB 80:738, 741
length frequency, FB 80:737, 740
oocyte development, FB 80:738, 741
predation, FB 80:740
salinity and temperature of study area, FB 80:737, 740
spawning characteristics, FB 80:739, 742
Maine coast
sampling program, S 767
Santa Barbara, California
fish assemblages, reef
annual variability in kelp forests off, FB 78:361
Sarasota, Florida
dolphin, Atlantic bottlenose, movements, and activities, FB 79:671
Sarda chiliensis—see Bonito, Pacific
Sarda sarda—see Bonito, Atlantic
Sarda spp.—see Bonitos
Sardine
Marquesan, FB 81:587, 595
Pacific
follicle condition, FB 82:443
recruitment studies, MFR 45(10-12):4
spawning, FB 82:443
Spanish
proximate chemical composition, MFR 45(4-6):45, MFR 46(1):19
Sardine, Pacific
California, southern and central
abundance, 1963-78, S 762
Sardinella aurita—see Sardine, Spanish
Sardinella marquesensis—see Sardine, Marquesan
Sardini
Allothunnus Serventy, FB 81:243
Cybiosarda Whitley, FB 81:240
Gymnosarda Gill, FB 81:243
Orcynopsis Gill, FB 81:240
Sarda Cuvier, FB 81:241
Sardinops sagax—see Sardine, Pacific
Sashin Creek, southeastern Alaska
salmon, pink
ammonia concentrations in redds, FB 78:809
Satellite
remote sensing
applications, MFR 46(3):3
charts, MFR 46(3):7
coastal zone monitoring, MFR 46(3):6
fisheries management applications, MFR 46(3):1
ocean/surface conditions, MFR 46(3):3
prediction, stock recruitment, MFR 46(3):5
sea-ice monitoring, MFR 46(3):7
tracking sea turtles, MFR 44(4):19
Saturated fatty acids
in fish and fish oil, MFR 46(2):60
Sausage products with fish
costs, MFR 45(7-9):21
economic impacts, MFR 45(7-9):21, 26
market, MFR 45(7-9):22
nutritional attributes, MFR 45(7-9):23
potential, MFR 45(7-9):21
Scad
bigeye
resource assessment at Mariana Archipelago, MFR 47(4):19
round
proximate chemical composition, MFR 46(1):19
Scallop, deep-sea
seasonal changes in soft-body component indices and energy reserves
biochemical analysis of tissues, FB 79:451
body component indices, FB 79:450, 452
dry weight and biochemical analyses, FB 79:453
gametogenic cycle, FB 79:451
histochemical localization of energy reserves, FB 79:453
histological and histochemical monitoring, FB 79:450
standard scallop, FB 79:451
Scallops, sea
abundance, FB 83:580
fishery damage to American lobsters, FB 83:575
Scheffe's test, FB 81:272, 275
Schizoporella unicornis—see Bryazoa
Sciaenops ocellata—see Drum, red
Scleractinia—see Coral
Scomber japonicus—see Mackerel, chub; Mackerel, Pacific
Scomber scombrus—see Mackerel, Atlantic
Scomberomorini, FB 81:233
Scomberomorus brasiliensis—see Mackerel, serra Spanish
Scomberomorus cavalla—see Mackerel, king
Scomberomorus commerson—see Mackerel, narrow-barred king
Scomberomorus concolor—see Mackerel, Monterey Spanish

Scomberomorus guttatus—see Mackerel, Indo-Pacific king
Scomberomorus koreanus—see Seerfish, Korean
Scomberomorus Lacepede, FB 81:233, 236, 238
Scomberomorus lineolatus—see Seerfish, streaked
Scomberomorus maculatus—see Mackerel, Spanish
Scomberomorus multiradiatus—see Seerfish, Papuan
Scomberomorus munroi—see Mackerel, Australian spotted
Scomberomorus niphonius—see Mackerel, Japanese Spanish
Scomberomorus plurineatus—see Mackerel, queen
Scomberomorus queenslandicus—see Mackerel, Queensland school
Scomberomorus regalis—see Cero
Scomberomorus semifasciatus—see Mackerel, broad-barred Spanish
Scomberomorus sierra—see Sierra
Scomberomorus sinensis—see Seerfish, Chinese
Scomberomorus tritor—see Mackerel, West African Spanish
Scombrid phylogeny
  historic, FB 81:252
  parasite base, FB 81:252
Scombridae, FB 81:260
  seamount fishery research, central North Pacific, MFR 46(2):11
Scombrids, FB 81:246
Scombrinae, FB 81:232
Scombrini
  Rostrelliger Jordon and Stark, FB 81:232
  Scomber Linnaeus, FB 81:232
Scopthalmus aquosus—see Windowpane
Scorpaenidae
  ichthyoplankton off Alaska, TR 20
  seamount fishery research, central North Pacific, MFR 46(2):11
Scuba gear
  used in oyster surveys, MFR 45(3):1
Sculpin
  Bay of Fundy-Gulf of Maine, FB 82:132
  current knowledge of larvae in northeast Pacific
    larval characters, FB 79:105
    larval groups, FB 79:106
    ungrouped genera, FB 79:113
  Pacific Ocean, N.E.
    larvae from marine and brackish waters, C 430
  trophic patterns among larvae in a Maine estuary
    diet comparisons, FB 80:830
    diet composition, FB 80:829
    diet overlap, FB 80:831
    feeding incidence, FB 80:829
    mouth size, larval, and prey width, FB 80:836
Sculpin, fluffy
  life history aspects, FB 83:645
Sculpin, longhorn
  adult pigment, FB 81:787
  benthic behavior, FB 81:788
  early development, FB 81:781
  eggs, FB 81:782
  Gulf of Maine
    trophic relationships, FB 79:775
  juvenile, FB 81:787
  larvae, FB 81:785
  metamorphosis, FB 81:786
  northwest Atlantic, FB 81:781
Sculpin, Pacific staghorn, FB 81:815
Sculpin, prickly
  prey of walleye, FB 82:412
Sculpin, rosylip
  larval development
    axial skelton, FB 80:350
    egg collection and laboratory rearing, FB 80:345
    fin development, FB 80:350
    identification, FB 80:346
    measurements, FB 80:346
    morphology, FB 80:349
    oral region, FB 80:350
    pigment patterns, FB 80:347
    reproductive behavior and larval rearing, FB 80:353
    spination, FB 80:353
Scup
  distribution, FB 82:83
  eggs, FB 82:78
  fin development, FB 82:80
  larvae, FB 82:79
  Middle Atlantic Bight
    food habits and trophic relationships, S 773
  ossification, FB 82:82
  pigment, FB 82:81
  preopercular spines, FB 82:83
Scyliorhinus meadi—see Catshark
Scyllarides squammosus—see Lobster, spiny
Scyphomedusidae
  as prey of leatherback sea turtles, MFR 46(3):57
Sea bass, white
  observations, warm water periods, California, MFR 45(4-6):27
Sea bottom, features
  furrows, FB 81:504
  pits, FB 81:504, 516, 519
Sea bream, red
  artificial propagation and culture techniques, TR 10
Sea level
  Monterey, California
    variation and causes, S 761
Sea lion, California
  exploitation prior to 1972, MFR 47(1):36
  feeding habits, FB 82:74
  population fluctuations and Pacific whiting fishery, FB 80:253
  prey, FB 82:67
  rookeries, FB 82:67
  seasonal distribution, FB 82:67
  species occurrence, FB 82:69
Sea lion, northern
  incidental catch, foreign fishing vessels, 1978-81, MFR 45(7-9):45
Sea lion, Steller
  prey of, in the Gulf of Alaska, FB 79:467
Sea scallop, Atlantic
  movement of tagged on Georges Bank, MFR 43(4):19
Sea trout, spotted
  spawning experiments, TR 10
Sea turtles—see Turtles, sea
Sea urchin, TR 33
Sea urchin (Echinometridae)
  seamount fishery research, central North Pacific, MFR 46(2):13
Sea urchin, red
  biology
    abundance, MFR 47(3):2
    development, MFR 47(3):6, 7
    distribution, MFR 47(3):2

Sea urchin, red (continued)
biology (continued)
ecology, MFR 47(3):7, 8
food habits, MFR 47(3):7
growth, MFR 47(3):6, 7
life history, MFR 47(3):2
management, MFR 47(3):7, 8
reproduction, MFR 47(3):5, 6
fishery
harvesting, MFR 47(3):91
history, MFR 47(3):8, 9
processing, FR 47(3):12
shipping, MFR 47(3):17, 18
Sea-ice
remote sensing monitoring, MFR 46(3):7
Sea-lion, California
entanglement studies, FB 83:692
Sea-surface temperature—see Temperature, sea-surface
Seabass, white
California, southern and central
abundance, 1963-1978, S 762
temperature effects on sport fishing, S 759
Seabirds
mortality in high-seas salmon gill nets
entanglement rates, FB 79:804
overall mortality, FB 79:804
species observed, FB 79:802
Seafood
botulism and heat-processing, MFR 45(2):1
impact of assurance of high quality at point of sale
Australian industry effort, MFR 43(2):23
discussion and recommendations, MFR 43(2):23
NMFS-industry effort, MFR 43(2):22
U.S. industry effort, MFR 43(2):23
international awareness for quality
countries recognizing need to improve quality, MFR 44(2):12
countries with reputation for high quality, MFR 44(2):11
low temperature preservation
chilled seawater, MFR 43(4):3
chilling, MFR 43(4):2
freezing, MFR 43(4):5
ice, MFR 43(4):2
liquid refrigerants, MFR 43(4):7
mechanical systems using liquid refrigerants, MFR 43(4):10
refrigerated air, MFR 43(4):11
refrigerated seawater, MFR 43(4):4
superchilling, MFR 43(4):4
nomenclature system, MFR 45(7-9):1
Seafood, frozen
economic feasibilty of quality assurance to the customer
data collection, MFR 44(11):3
hypothesis verification and basis for further experiments, MFR 44(11):12
normalcy of trends, MFR 44(11):8
processor markups, MFR 44(11):5
processor profit margin, MFR 44(11):5
production costs, MFR 44(11):4
production volume, MFR 44(11):4
quality assurance of fresh fish fillets, MFR 44(11):1
rationale for quality assurance of frozen fish fillets, MFR 44(11):3
retail markup, MFR 44(11):8
Seafood, frozen (continued)
economic feasibility etc. (continued)
retail sales, MFR 44(11):5
retail sales trend, MFR 44(11):6
retailer profit margin, MFR 44(11):19
sample design, MFR 44(11):3
store location, MFR 44(11):3
Seagrass, FB 82:455
abundance of fishes, FB 81:838
beds, FB 81:841
biomass, FB 81:429, 838
fish inhabiting, FB 82:37
habitat utilization by nekton, FB 82:455
kelp forests, California, FB 82:37
Seagrass bed
habitat, FB 81:431
Halodule wrightii, FB 81:430
Zostera marina, FB 81:430
Seal, Alaskan fur
history of study and management, S 780
Seal, Antarctic fur
marine debris entanglements, MFR 46(3):59
Seal, bearded, FB 81:501, 509
satellite monitoring of winter ice cover, MFR 46(3):7
Soviet-American Cooperative Research, TR 12
Seal, Cape fur
marine debris entanglement, MFR 46(3):59
Seal, fur
Bering Sea, FB 81:121
food consumption, FB 81:129
fur seal rookeries, FB 81:123
future data collection, FB 81:131
population indices, FB 81:126, 130
population trend, FB 81:125
pup deaths on the rookery, FB 81:127
suggested analyses, FB 81:131
Seal, harbor
abundance in Massachusetts, FB 82:440
chum salmon, FB 81:292, 296
comparative biology, TR 12
craniological analysis, TR 12
disturbances, FB 82:495
food of, in Gulf of Alaska, FB 78:549
Gulf of Alaska
stomach contents and feces as indicators of foods, FB 78:797
haul-out, FB 81:293, 298
incidental catch, foreign fishing vessels, 1978-81, MFR 45(7-9):45
Netarts Bay, Oregon, FB 81:291
otoliths, FB 81:293, 298
population, FB 82:440, 498
preys of, FB 81:295
pups, FB 81:293
rate of increase, FB 82:441
satellite monitoring of winter ice cover, MFR 46(3):7
seasonal disturbances, FB 82:495, 498
tags, FB 81:292, 296
teeth, FB 81:298
Tillamook Bay, Oregon, FB 81:291
Whiskey Creek, Oregon, FB 81:292
Seal, Hawaiian monk
fishing gear encounters, Lisianski Island, 1982, MFR 46(3):59

Seal, monk
entanglement with fishing gear
incidence, MFR 46(3):60
reponses, MFR 46(3):60
Seal, northern elephant
incidental catch, foreign fishing vessels, 1978-81, MFR 45(7-9):45
population growth and censuses, on the California Channel Islands, 1958-78, FB 79:562
Seal, northern fur
equipment and techniques for handling, S 758
feeding rate of captive adult female, FB 79:182
food of, off California and Washington
prey distribution, FB 78:955
prey size, FB 78:957
prey species, FB 78:955
stomach capacity of predators, FB 78:955
incidental catch, foreign fishing vessels, 1978-81, MFR 45(7-9):45
marine debris entanglement, MFR 46(3):59
Pacific Ocean and Bering Sea
opportunistic feeding, S 779
Pribilof Islands, Alaska
management, 1786-1981, TR 4
satellite monitoring of migration patterns, MFR 46(3):9
Seal, ribbon
incidental catch, foreign fishing vessels, 1978-81, MFR 45(7-9):45
phenotypic structure of populations, TR 12
satellite monitoring of winter ice cover, MFR 46(3):7
Seal, ringed
satellite monitoring of winter ice cover, MFR 46(3):7
Soviet-American Cooperative Research, TR 12
Seal, spotted
craniological studies, TR 12
food habits, TR 12
phenotypic structure of populations, TR 12
subpopulations in Bering Sea, TR 12
Seamounts
initial U.S. exploration of Gulf of Alaska
Applequist, MFR 43(1):28
Dickens, MFR 43(1):28
Durgin, MFR 43(1):28
fish and shellfish resources, MFR 43(1):29
Giacomini, MFR 43(1):29
Patton, MFR 43(1):29
Pratt, MFR 43(1):28
Quinn, MFR 43(1):28
Surveyor, MFR 43(1):28
Welker, MFR 43(1):28
Seaperch, striped
Puget Sound, Washington
foraging on an artificial reef, MFR 44(6-7):40
Seaperch, white, FB 82:37
Searobin
larvae distribution patterns, MFR 45(10-12):19
SEASAT satellite
fisheries data applications, MFR 46(3):6
Seasonal effects
anchovy, northern, FB 81:741
Bay of Fundy-Gulf of Maine, FB 82:124, 136
clam, hard, FB 81:765
Seasonal effects (continued)
drum, banded, FB 82:339
flounder, winter, FB 81:913
flounder, yellowtail, FB 81:341
groundfish, FB 82:298
kingfish, southern, FB 82:429
mussel, blue, FB 81:734
pollock, walleye, FB 81:890
rockfish, FB 82:280
rockfish, olive, FB 82:534
salmon, chinook, FB 82:157
seal, harbor, FB 82:495
shrimp, pink, FB 81:455
walleye, FB 82:413
weakfish, FB 82:503
Seatrout, sand
charterboat fishery harvest, southeastern U.S., MFR 45(1):15
reproduction, movements, and population dynamics
age determination using scales, FB 79:660
growth and age determination by length frequency, FB 79:658
maturation and spawning periodicity, FB 79:650
maximum size, lifespan, and mortality, FB 79:662
nurseries and later movements, FB 79:657
spawning areas, early nurseries, and movements, FB 79:655
total weight-, girth-, and standard length-total length relations, FB 79:664
Seatrout, silver
charterboat fishery harvest, southeastern U.S., MFR 45(1):15
spawning, age determination, longevity, and mortality in Gulf of Mexico
age determination using scales, FB 80:494
distribution and availability, FB 80:495, 498
growth and age determination, FB 80:496
growth and age determination by length frequency, FB 80:493
maximum size, life span, and mortality, FB 80:495, 498
spawning, FB 80:489, 496
total weight- and girth-standard length and standard length-total length relationships, FB 80:495
Seatrout, spotted
Texas charterboat fishery harvest, MFR 45(1):11
Seawater challenge
measuring smoltification in juvenile salmon, TR 17
Seaweed
aquaculture
brown algae, C 442
phytoplankton, C 442
porphyra (nori), C 442
Sebastes alutus—see Perch, Pacific ocean
Sebastes crameri—see Rockfish, darkblotched
Sebastes diploproa—see Rockfish, splitnose
Sebastes entomelas—see Rockfish, widow
Sebastes flavidus—see also Rockfish, yellowtail
head spine notes, off Oregon, FB 79:254
Sebastes goodei—see Chilipepper
Sebastes jordani—see Rockfish, shortbelly
Sebastes matsubari—see Rockfish
Sebastes melanops
head spine notes, off Oregon, FB 79:254
Sebastes mystinus
head spine notes, off Oregon, FB 79:254
Sebastes paucispinis—see Bocaccio

Sebastes pinniger—see Rockfish, canary
Sebastes serranoides—see Rockfish, olive
Sebastes spp.—see Redfish; see Rockfish
Sebastes zacentrus—see Rockfish, sharpchin
Seerfish, Chinese
biology, FB 82:667
fisheries, FB 82:667
geographic variation, FB 82:668
species type, FB 82:665
Seerfish, Korean
biology, FB 82:637
fisheries, FB 82:638
geographic variation, FB 82:638
species type, FB 82:636
Seerfish, Papuan
biology, FB 82:647
fisheries, FB 82:647
species type, FB 82:646
Seerfish, streaked
fisheries, FB 82:640
geographic variation, FB 82:641
species type, FB 82:638
Senorita, FB 82:37
Sergestes similis
larval development
nauplius I, FB 80:218
nauplius II, FB 80:218
nauplius III, FB 80:218
nauplius IV, FB 80:223
postlarva I, FB 80:238
postlarva II, FB 80:238
protozoea I, FB 80:223
protozoea II, FB 80:223
protozoea III, FB 80:225
zoea I, FB 80:231
zoea II, FB 80:234
Seriola dorsalis—see Yellowtail
Seriola dumerili—see Amberjack
Seriola lelandei—see Yellowtail
Seriphus politus—see Queenfish
Serranidae—see also Perch, sand
proximate chemical composition, MFR 46(3):71
Sexual maturity—see Reproductive biology
Shad, American, FB 81:815
eggs, FB 81:323
fin development, FB 81:330, 337
interaction with walleye, FB 82:411
larvae, FB 81:323
larval *Alosa sapidissima*, FB 81:324
morphology, FB 81:323, 336
myomers, FB 81:328, 336
Newfoundland, Canada to St. John's River, Florida, FB 81:323
pigmentation, FB 81:333, 337
Shark, Atlantic sharpnose, FB 81:61
Gulf of Mexico, FB 81:61
reproductive biology, FB 81:63, 68
Shark, basking
California, southern and central
abundance, 1963-78, S 762
Shark, bigeye thresher—see Sharks
Shark, blacktip
incidental capture, TR 31
Shark, blue, FB 81:61, 69
incidental capture, TR 31
physical properties useful in designing a skinning machine
adhesive work, MFR 43(10):20
apparatus and measurements, MFR 43(10):17
design parameters, MFR 43(10):15
sample collection and preparation, MFR 43(10):16
shear strength and shear work, MFR 43(10):19
skinning machine design, MFR 43(10):20
tensile strength and breaking elongation, MFR 43(10):18
Shark, bull
incidental capture, TR 31
swimming kinematics, FB 80:803
Shark, dusky
incidental capture, TR 31
Shark, finetooth
occurrence off Dauphin Island, Alabama, FB 78:177
Shark, Galapagos
predation on released spiny lobsters in the northwestern Hawaiian Islands, MFR 47(1):33
Shark, hammerhead
incidental capture, TR 31
Shark, lemon
incidental capture, TR 31
swimming kinematics, FB 80:803
Shark, leopard
swimming kinematics, FB 80:804
Shark, nurse, FB 82:376
incidental capture, TR 31
swimming kinematics, FB 80:803
Shark, oceanic whitetip
incidental capture, TR 31
Shark, Pacific blacktop
swimming kinematics, FB 80:803
Shark, porbeagle
incidental capture, TR 31
Shark, sand tiger, FB 82:375
cannibalistic period, FB 81;213, 216
early development, FB 81:204, 206, 222
east-central coast of Florida, FB 81:202
late gestation period, FB 81:217
mating activity, FB 81:204
oophagous stage, FB 81:218
postcannibalistic period, FB 81:217
preparturition period, FB 81:218
reproduction, FB 81:222
Shark, sandbar, FB 81:61, 72
Chincoteague Bay, Virginia
feeding behavior and biology of, in, FB 79:441
food habits in, FB 83:395
Shark, sandbar (brown)
incidental capture, TR 31
Shark, scalloped hammerhead
schooling in Gulf of California, FB 79:356
Shark, shortfin mako
incidental capture, TR 31
Shark, shovelhead, FB 82:378
Shark, silky
incidental capture, TR 31
Shark, thresher—see Thresher, bigeye
Shark, tiger
incidental capture, TR 31

Shark, white
incidental capture, TR 31
observations off Long Island, New York, FB 80:153
predation on pinnipeds in California coastal waters, FB 80:891
Sharks
age determination
proceedings, TR 8
Atlantic coastal waters of Florida
occurrence of *Cirolana borealis* in hearts, FB 79:376
Atlantic Ocean, western north, the Gulf of Mexico and the Caribbean Sea
guide to fishes taken in longlining, C 435
Farallon Islands
predation on pinnipeds, FB 78:941
incidental capture of sharks, TR 31
revision of genus *Carcharhinus*, TR 34
species accounts, TR 34
swimming kinematics, FB 80:803
Sharks (large)
estimated catches by recreational fishermen in the Atlantic and Gulf of Mexico, TR 31
Sharks, *Carcharhinus* spp.
identification features, C 445
key to species, C 445
species account, C 445
zoogeography, C 445
Sharks, pelagic
reported commercial catches in the northwest and western central Atlantic Ocean and Gulf of Mexico, TR 31
estimates of recreational catch and other fishery bycatch, TR 31
Sheephead, California, FB 82:37
Sheepscot River estuary, Maine
herring, Atlantic
growth and age structure of larval, as determined by daily growth increments in otoliths, FB 79:123
Shell growth
clam, hard, FB 81:697, 765
quahog, ocean, FB 82:13
Shellfish
associated with Gulf of Alaska seamounts, MFR 43(1):26
consumer expenditure patterns, MFR 44(3):1
Hawaii, 1970-77
per capita annual utilization and consumption, MFR 42(2):16
Maryland commercial landings
identifying climatic factors influencing, FB 80:611
polychlorinated biphenyls, Chesapeake Bay
effects on humans, MFR 42(2):22
PCB control, MFR 42(2):22
Shellfish culture
recent developments in Japan, TR 16
Shellfishes
Pacific Ocean, northeastern
chlorinated hydrocarbon levels, MFR 43(1):1
Shells, slipper
oyster spat fouling organisms, northeastern U.S., MFR 45(3):5
Shrimp
abundance, FB 83:223
associated with giant kelp, FB 82:55
comparison of finfish and, in Texas and Louisiana
catch rates and ratios, MFR 44(9-10):45
contemporary data, MFR 44(9-10):44
data analysis, MFR 44(9-10):45
Shrimp (continued)
Comparison of finfish and, (continued)
historical data, MFR 44(9-10):45
species composition, MFR 44(9-10):48
effects of 1981 Texas fishery closure
abundance, MFR 44(9-10):1
catch magnitude, MFR 44(9-10):2
fishing patterns, MFR 44(9-10):3
incidental catch and discards, MFR 44(9-10):4
estimated impacts on ex-vessel prices and value as a result of Texas closure regulation, MFR 44(9-10):38
Gulf and South Atlantic coasts
relationship between ex-vessel value and size composition of annual landings, MFR 42(12):28
Heterocarpus spp., MFR 47(3):19
identification and development, FB 83:253
length-frequency data, FB 83:222
life history aspects, FB 83:219
Pandalidae, Hippolytidae, Crangonidae larvae, FB 83:253
relative abundance and size distribution of commercially important during 1981 Texas closure
genus Penaeus, MFR 44(9-10):8
historical collections, MFR 44(9-10):7
length frequency distributions of brown, MFR 44(9-10):10
length frequency distributions of other Panaeid species, MFR 44(9-10):12
sampling procedures, MFR 44(9-10):6
resource assessment at Mariana Archipelago, MFR 47(4):19
review of offshore fishery and 1981 Texas closure
biological background, MFR 44(9-10):17
fishery background, MFR 44(9-10):17
Louisiana fishery, MFR 44(9-10):19,21
production and regulations, MFR 44(9-10):18
recruitment, MFR 44(9-10):27
relative abundance, MFR 44(9-10):23
size composition 1972, 1977-80, MFR 44(9-10):19
size composition 1981, MFR 44(9-10):26
Texas fishery, MFR 44(9-10):19,22
sex transition, FB 83:225
yield impacts of 1981 Fishery Conservation Zone closure off Texas
sensitivity considerations, MFR 44(9-10):37
size structure in FCZ, MFR 44(9-10):31
virtual population analysis of offshore brown shrimp stock, MFR 44(9-10):33
yield-per recruit analysis, MFR 44(9-10):32
yields, had the FCZ been open, MFR 44(9-10):34
zoea, FB 82:523
Shrimp, aloha
trawling surveys, Hawaii, MFR 46(2):19
Shrimp, brown
abiotic relationships, FB 82:331
analysis of migration patterns using isotope ratios, FB 81:789
density-habitat, FB 82:332
density-temperature, FB 82:332
foods of coastal fishes, FB 81:396
Gulf and South Atlantic coasts
relationship between ex-vessel value and size composition of annual landings, MFR 42(12):28
habitat selection, FB 82:325
natural stable carbon isotope tag traces Texas migrations
bay migrations, FB 79:344

Shrimp, brown (continued)
natural stable carbon isotope tag etc. (continued)
bay shrimp, FB 79:339
offshore migrations, FB 79:343
offshore samples, FB 79:341
seasonality, FB 79:341, 342
size and bay brown shrimp (XXX)C, FB 79:339
night trawl survey, FB 81:396
offshore fisheries, French Guiana, Surinam, and Guyana, 1978-1979, MFR 45(4-6):1
oxygen consumption and hemolymph osmolality
crowding effects, FB 78:743, 745
disturbance effects, FB 78:743, 745
diurnal effects, FB 78:743, 744
energy considerations, FB 78:752
reduced-light effects, FB 78:743, 745
salinity effects, FB 78:744, 745, 749
size effects, FB 78:744, 746, 750
temperature effects, FB 78:744, 745, 751
variability sources, FB 78:746
population estimates using juveniles, FB 83:677
predation, FB 82:331
stomach contents, FB 81:397
Texas estuaries to offshore waters, FB 81:396
Texas shrimp fleet characteristics, 1979-82, MFR 46(2):53
trends in ex-vessel value and size composition of annual landings
annual average ex-vessel value by size category, MFR 42(12):19
annual cumulative ex-vessel value of landings by size category, MFR 42(12):22
data description, MFR 42(12):18
landings, MFR 42(12):19
Shrimp, caridean
Northwestern Hawaiian Islands
catch rate, MFR 46(2):20
distribution, MFR 46(2):20
Heterocarpus ensifer, trapping survey, MFR 46(2):18
Heterocarpus laevigatus, trapping survey, MFR 46(2):18
peak abundance, MFR 46(2):25
seasonal abundance, MFR 46(2):23
size/depth, MFR 46(2):23
Shrimp, deepwater
Vanuatu
bait, MFR 43(12):12
catch analyses, MFR 43(12):14
catch by depth, MFR 43(12):15
depth distribution, MFR 43(12):14
fishing operation, MFR 43(12):12
fishing rig, MFR 43(12):12
fishing vessel and equipment, MFR 43(12):12
offshore bathymetry, MFR 43(12):13
sexuality, MFR 43(12):16
size by depth, MFR 43(12):15
species caught, MFR 43(12):14
survey area and method, MFR 43(12):13
temperature, MFR 43(12):13
traps, MFR 43(12):11
Shrimp, deepwater pandalid
stock, FB 81:434
Shrimp, freshwater
Cane River, Jamaica, FB 81:654, 658
catch, FB 81:655, 658
eggs, FB 81:656
growth, FB 81:656, 658
maturity, FB 81:655
mortality, FB 81:655
Shrimp, gulf
recruitment studies, MFR 45(10-12):4
Shrimp, Kuruma
nutritional requirements and artificial diets, TR 16
structure of culture pond, TR 16
Shrimp, mantis
distribution, FB 82:418, 420, 424
life history, FB 82:418
sex ratio, FB 82:420, 422
size composition, FB 82:420, 422
Shrimp, northern pink
Pacific cod diet in Pavlof Bay, Alaska, FB 83:601
Shrimp, Pacific
microbiological profile, stowed under refrigerated seawater spray
microbial count, MFR 44(3):15
microbial identification, MFR 44(3):15
NaCL, MFR 44(3):15
pH, MFR 44(3):15
sampling, MFR 44(3):12
sea trial of model RSWS unit, MFR 44(3):14
shore trial of model RSW system, MFR 44(3):15
temperature, MFR 44(3):15
Shrimp, pandalid
Kachemak Bay area
larvae distribution and abundance, S 765
Shrimp, penaeid
disease in controlled culture, TR 16
research and development in maturation and production, TR 16
Shrimp, *Penaeus* spp.
gulf shrimp recruitment studies, MFR 45(10-12):4
Shrimp, pink
analysis of migration patterns using isotope ratios, FB 81:789
biological data, TR 30
distribution and abundance, FB 81:457
fishery in Tortugas Sanctuary off south Florida, MFR 47(4):11
growth rates, FB 81:464
Gulf and South Atlantic coasts
relationship between ex-vessel value and size composition of annual landings, MFR 42(12):28
larvae, FB 81:455
offshore fisheries, French Guiana, Surinam, and Guyana, 1978-79, MFR 45(4-6):1
relationship of winter temperature and spring landings in North Carolina
air-water temperature relation, FB 80:765
annual temperature cycle in Newport River Estuary, FB 80:764
relationship between temperature, rainfall, and landings, FB 80:765
survival, FB 81:465, 467, 469
Texas shrimp fleet characteristics, 1979-82, MFR 46(2):53
trends in ex-vessel value and size composition of annual landings
annual average ex-vessel value by size category, MFR 42(12):19
annual cumulative ex-vessel value of landings by size category, MFR 42(12):22
annual cumulative landings by size category, MFR 42(12):21

Shrimp, pink (continued)
Landings (continued)
data description, MFR 42(12):18
landings, MFR 42(12):19
Shrimp, pink-spotted
offshore fisheries, French Guiana, Surinam, and Guyana, 1978-79, MFR 45(4-6):1
Shrimp, rock
abundance, FB 82:717
biometric relationships, FB 82:718
description and taxonomy in the eastern Pacific, FB 83:1
diet, FB 82:717
distribution, FB 82:716
Shrimp, white, FB 81:789
Gulf and South Atlantic coasts
relationship between ex-vessel value and size composition of annual landings, MFR 42(12):28
offshore fisheries, French Guiana, Surinam, and Guyana, 1978-79, MFR 45(4-6):1
Texas shrimp fleet characteristics, 1979-82, MFR 46(2):53
trends in ex-vessel value and size composition of annual landings
annual average ex-vessel value by size category, MFR 42(12):19
annual cumulative ex-vessel value of landings by size category, MFR 42(12):22
annual cumulative landings by size category, MFR 42(12):21
data description, MFR 42(12):18
landings, MFR 42(12):19
Shrimp culture
parasitological aspects, TR 25
Shrimp fisheries
Guianas-Brazil area, 1978-79
catch, MFR 45(4-6):7
CPUE, MFR 45(4-6):3
fishing effort, MFR 45(4-6):4
regulations, MFR 45(4-6):2
trends, MFR 45(4-6):9
U.S. vessel landings, MFR 45(4-6):3
Guianas-Brazil and related U.S. research
annual and monthly landings, MFR 43(2):11
catch per unit of effort, MFR 43(2):12
distribution of catch and effort in relation to day and night fishing, MFR 43(2):13
species composition and geographical distribution, MFR 43(2):11
stock evaluation, MFR 43(2):14
Texas
commercial, MFR 46(2):53
costs, MFR 46(2):53
economic impacts, MFR 46(2):53
fishing areas, MFR 46(2):53
fleet, MFR 46(2):54
legislation, MFR 46(2):58
licensing, MFR 46(2):53
management, MFR 46(2):53
recreational, MFR 46(2):53
total landings/value, MFR 46(2):53
vessels, MFR 46(2):53
use of Griffin's yield model for Gulf of Mexico
expected value of yield, FB 78:974
parameter sensitivity test, FB 78:975
Shrimp fleet
Guianas-Brazil area, MFR 45(4-6):2
U.S. South Atlantic, MFR 45(7-9):27
Shrimp industry
costs and returns trends in Gulf of Mexico
annual cash flows, MFR 42(2):5
annual costs and returns, MFR 42(2):4
cash flow budgeting, MFR 42(2):3
catch, seasonal variations, MFR 42(2):2
costs and returns budgeting, MFR 42(2):3
data analysis, MFR 42(2):3
data description, MFR 42(2):2
investment analysis, MFR 42(2):3
monthly cash flows, MFR 42(2):5
Shrimp landings
Gulf of Mexico, MFR 46(2):51
Shrimp larvae, penaeid
effect of vertical migration on dispersal in Gulf of Carpentaria, Australia
consequences of vertical migration, FB 80:545
ontogeny of vertical migration, FB 80:543
pattern variations of vertical distribution, FB 80:544
Shrimp production
Gulf of Mexico
food web hypothesis, FB 79:737
Shrimp vessels
Gulf of Mexico, MFR 46(2):49
costs, FB 82:365
revenue, FB 82:366, 369
Sicyonia pencillata—see Shrimp, rock
Sierra
biology, FB 82:665
fisheries, FB 82:665
geographic variation, FB 82:665
species type, FB 82:662
Signidae
proximate chemical composition, MFR 46(3):71
Silverside, Atlantic
migration, offshore winter, FB 80:145
patterns in fecundity, FB 83:331
Simulation
eel, Atlantic, movement patterns, FB 81:484
yield per recruit model, FB 81:681
Size-composition
queenfish, FB 83:172
Skate, little
Gulf of Maine
trophic relationships, FB 79:775
Mid Atlantic Bight
food habits and trophic relationships, S 773
Skipjack Tuna Assessment Program
Papua New Guinea's tuna fishery, MFR 45(10-12):47
Smelt
longfin, FB 81:815
rainbow
mortalities of larvae exposed to acute thermal shock, FB 79:198
surf, FB 81:815
Smoltification
methods of measure, TR 27
Smoothtongue
California, FB 82:68

Smoothtongue (continued)
northern
eggs and larvae, FB 81:37
identification, FB 81:25, 36
morphology, FB 81:27
northeast Pacific, FB 81:23
osteology, FB 81:25, 30
pigmentation, FB 81:26
Snail
coral reef
abundance, MFR 46(4):75
conservation efforts, MFR 46(4):73
demand, MFR 46(4):73
depletion, MFR 46(4):74
distribution, MFR 46(4):76
fisheries, MFR 46(4):73
habitat, MFR 46(4):76
harvest, MFR 46(4):73
products, MFR 46(4):73
resource management, MFR 46(4):74
sanctuary program, MFR 46(4):74
resource and fishery of eastern Bering Sea
composition, MFR 42(5):15
Japanese fishery , MFR 42(5):17
life history, MFR 42(5):16
prospects for U.S. fishery, MFR 42(5):19
Snapper
resource assessment at Mariana Archipelago, MFR 47(4):19
Snapper, Brigham's
seamount fishery research, central North Pacific, MFR 46(2):11
Snapper, Hawaiian
gonads, FB 81:526
growth of whole fish, FB 81:527, 532
otolith growth increments, FB 81:524
sagittae, FB 81:526
size-frequency distribution, FB 81:531
Snapper, pink
allele examination, FB 82:707
electrophoresis, FB 82:704
enzyme variation, FB 82:704
genetic differentiation, FB 82:710
seamount fishery research, central North Pacific, MFR 46(2):11
Snapper, red
growth of juvenile, Gulf of Mexico, FB 80:644
seamount fishery research, central North Pacific, MFR 46(2):11
spawning experiments, TR 10
Texas charterboat fishery harvest, MFR 45(1):11
Snapper, vermilion
reproductive biology, North and South Carolina
fecundity, FB 78:142
maturity, FB 78:140, 144
seasonality, frequency, and duration of spawning, FB 78:139
sex ratio, FB 78:141, 144
Sole, butter
eggs and larvae off Oregon and Washington
features, distinguishing, FB 78:403
identification verification, FB 78:403
morphology, FB 78:405, 408
occurrence, FB 78:412
ossification of meristic structures, FB 78:409
pigmentation, FB 78:404, 405
Sole, deepsea
pelagic eggs and larvae
comparison, FB 79:166
description, FB 79:164
identification, FB 79:164
occurrence, FB 79:166
Sole, Dover
feeding selectivity off Oregon
diet changes with predator length, FB 79:753
feeding habits, FB 79:752
prey abundance patterns, FB 79:759
fin erosion, FB 83:195
Sole, English, FB 82:113
age and growth in Oregon coastal waters
field and laboratory procedures, FB 80:94
increment formation, FB 80:95
spawning and rearing procedures, FB 80:94
statistical procedures, FB 80:95
growth during metamorphosis, FB 80:150
growth in estuarine and open coastal nursery grounds, FB 80:245
Sole, rex
fin erosion, FB 83:195
Sole, yellowfin
Bering Sea, FB 81:667
genetic population structure, FB 81:668, 670
Hokkaido, Japan, FB 81:668
north Pacific Ocean, FB 81:667
SOOP (ships of opportunity)
ocean monitoring program, TR 24
South America
hake
resource and utilization, MFR 42(1):8
squid fisheries developments, MFR 42(7-8):10
South Carolina
estuarine system, S 757
snapper, vermilion
reproductive biology, FB 78:137
South Carolina, Charleston
reef, artificial
food of fish collected on, MFR 44(6-7):49
Southern oscillation
indices, FB 81:363, 365
long-term variations, FB 81:367
Soviet-American Cooperative Research
marine mammals, TR 12
Spadella cephaloptera
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Spadella nana
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Spadella pulchella
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15
Spadella schizoptera
chaetognatha of the Caribbean Sea
classification, TR 15
key to species, TR 15

Sparidae
proximate chemical composition, MFR 46(3):71
Spawning—see also Reproductive biology
daily time of in the Peconic Bays, New York, FB 78:455
Spearfish, shortbill
observations, warm water periods, California, MFR 45(4-6):27
Sphyraena argentea—see Barracuda, Pacific
Sphyrna lewini—see Shark, scalloped hammerhead
Sphyrna spp.—see Scalloped hammerhead, TR 31
—see Great hammerhead, TR 31
—see Bonnethead, TR 31
—see Smooth hammerhead, TR 31
Sphyrna tiburo—see Bonnethead; Shark, shovelhead
Spikefishes
osteology, phylogeny, and higher classification, C 434
Spionida
life history, distribution, and abundance in the New York Bight, S 766
Spirinchus thaleichthys—see Smelt, longfin
Spirontocaris arcuata
description
stage I zoeae, FB 79:431
Spirontocaris murdochi—see Shrimp
Spirontocaris ochotensis
description
stage I zoea, FB 79:433
Spisula solidissima—see Clam, Atlantic surf; Clam, surf
Splittail
condition, FB 81:650
feeding, FB 81:651, 653
growth, FB 81:649, 653
life history, FB 81:649
reproductive biology, FB 81:650
Sacramento-San Joaquin estuary, FB 81:647, 653
Sport fishing—see Recreational fishing; Fishing, sport
Spot
age, growth and distribution of larvae in North Carolina coastal waters, FB 83:587
Cape Fear River, North Carolina
retention of postlarval in tidal estuary, FB 78:419
chemical composition and frozen storage stability
chemical analyses, MFR 44(11):15
physical measurements, MFR 44(11):15
product evaluation, MFR 44(11):15
sample preparation, MFR 44(11):15
sensory evaluation, MFR 44(11):15
egg and larval development
body proportions, FB 78:704
distinguishing from other sciaenids, FB 78:712
embryonic development, FB 78:702
fins, FB 78:705
pigmentation, FB 78:710
pterygiophore development and arrangements, FB 78:709
fatty acid profile, MFR 45(7-9):31
incidental harvest, South Atlantic shrimp fleet, MFR 45(7-9):27
infections, FB 81:895
larvae, FB 81:407, 895
mean standard length, FB 81:407, 411
1972-73 season, FB 81:407
1973-74 season, FB 81:408
recruitment studies, MFR 45(10-12):4
Sprat
abundance, MFR 45(10-12):19
baitfish use, Papua New Guinea's tuna fishery, MFR 45(10-12):50
Spratelloides gracilis—see Sprat
Spyridia
as substrate for *Gambierdiscus toxicus*, MFR 46(1):16
Squalus acanthias—see Dogfish, spiny
Squid, FB 81:124, 129
Atlantic coast, U.S.
length-weight relationship, S 745
California, southern and central
abundance, 1963-78, S 762
catches
resulting from trawl surveys off southeastern United States, MFR 42(7-8):39
dried
processing equipment and markets, MFR 42(7-8):85
Enoploteuthis reticulata
adult description, FB 80:723
experimental fishing with lights in Nantucket Sound
vessel, rigging, and operation, MFR 42(7-8):52
vessel trials, MFR 42(7-8):53
experimental jigging off northeast United States
biological data, MFR 42(7-8):65
catch and effort, MFR 42(7-8):64
environmental factors, MFR 42(7-8):65
fishing areas, MFR 42(7-8):63
fishing operations, MFR 42(7-8):60
processing operations, MFR 42(7-8):63
vessel lighting, MFR 42(7-8):66
flying
potential squid jigging fishery, Washington coast, MFR 45(7-9):56
four new species from the central Pacific
bathymetric distribution, FB 80:728
Enoploteuthis higginsi, FB 80:718
Enoploteuthis jonesi, FB 80:713
Enoploteuthis obliqua, FB 80:704
Enoploteuthis octolineata, FB 80:708
geographic distribution, FB 80:728
key to species of *Enoploteuthis*, FB 80:731
relationships, FB 80:729
helminth fauna and host parasite relations, TR 25
market, FB 82:68
nail
potential squid jigging fishery, Washington coast, MFR 45(7-9):56
New England
experimental pair trawling, MFR 42(7-8):57
off Washington
biological data, MFR 45(7-9):59, 60, 61
harvesting, MFR 45(7-9):60
jigging experiments, MFR 45(7-9):57-59
sexual maturity, MFR 45(7-9):61
squid, nail, MFR 45(7-9):56
squid, flying, MFR 45(7-9):56
Pacific market
embryological stage, FB 82:445
spawning, FB 82:445
predation by marine mammals in eastern North Pacific Ocean and Bering Sea
Gonatidae, MFR 44(2):5
Loliginidae, MFR 44(2):3

Squid (continued)
Bering Sea (continued)
Ommastrephidae, MFR 44(2):4
Onychoteuthidae, MFR 44(2):4
specimen collection, MFR 44(2):2
quality of, held in chilled seawater vs. conventional shipboard handling
boxed, MFR 42(7-8):74
frozen at sea, MFR 42(7-8):74
organoleptic results, MFR 42(7-8):75
penned, MFR 42(7-8):74
procedure ashore, MFR 42(7-8):75
procedure at sea, MFR 42(7-8):74
quality determination, MFR 42(7-8):75
quality of mantles canned in oil
effect of preprocess frozen storage, MFR 43(6):20
shelf life, MFR 43(6):19
shrinkage during thermal processing, MFR 43(6):18
system to singulate and align for packaging and processing, MFR 43(6):21
skinning and eviscerating system, development
design considerations, MFR 42(7-8):77
ducting, MFR 42(7-8):79
evisceration and pen removal, MFR 42(7-8):79
industrial scale-up, MFR 42(7-8):84
orientation and alignment, MFR 42(7-8):77
performance trials, MFR 42(7-8):81
removal from machine, MFR 42(7-8):80
skinning process, MFR 42(7-8):79
Squid, long-finned
biological considerations relevant to management in northwest Atlantic
biology, MFR 42(7-8):23
commercial fishery, MFR 42(7-8):29
length frequency samples, MFR 42(7-8):31
research cruise abundance, MFR 42(7-8):32
simulation model of population, MFR 42(7-8):36
objective method for classifying into sexual maturity stages
application, FB 80:453
biological relevance and accuracy, FB 80:456
classification process, FB 80:452
comparisons with other classification methods, FB 80:457
discriminant functions development, FB 80:451
maturity stages, four, FB 80:453
multivariate approach, objectivity and utility, FB 80:456
reproductive behavior, in situ observations, FB 78:947
scanning electron microscopy
cooked, MFR 42(7-8):73
frozen, MFR 42(7-8):69
muscle fibers, MFR 42(7-8):69
procedure, MFR 42(7-8):67
raw squid, MFR 42(7-8):68
Squid, short-finned
biological considerations relevant to management in northwest Atlantic
biology, MFR 42(7-8):23
commercial fishery, MFR 42(7-8):29
length frequency samples, MFR 42(7-8):31
research cruise abundance, MFR 42(7-8):32
simulation model of population, MFR 42(7-8):36
recent developments in Newfoundland fishery
catch rates, factors influencing inshore, MFR 42(7-8):18
Squid, short-finned (continued)
recent developments etc. (continued)
dried, MFR 42(7-8):20
fishing strategy developments, MFR 42(7-8):17
frozen, MFR 42(7-8):20
landings, distribution, and economic value, MFR 42(7-8):15
life history, MFR 42(7-8):15
management initiatives, MFR 42(7-8):16
offshore fishery, MFR 42(7-8):19
processing and marketing developments, MFR 42(7-8):19
prospects, MFR 42(7-8):21
Squid fishery
Japan's industry
consumption, MFR 42(7-8):6
fishery, MFR 42(7-8):1
import quota system, MFR 42(7-8):8
regulation, MFR 42(7-8):4
Newfoundland, Canada
recent developments in short-finned, MFR 42(7-8):15
Philippine fishery
developments, MFR 43(1):19
fishing methods, MFR 43(1):15
production, MFR 43(1):13
research, MFR 43(1):17
shark bycatch, TR 31
South America, developments
Atlantic coast, MFR 42(7-8):11
consumer market, MFR 42(7-8):12
Pacific coast, MFR 42(7-8):10
situation, general, MFR 42(7-8):10
squid resources, MFR 42(7-8):12
Texas
biological, economic, and market considerations, MFR 42(7-8):44
Squilla empusa—see also Shrimp, mantis
larval ecology in Chesapeake Bay
Cape Henry survey, FB 78:694
research applied to national needs (RANN) survey, FB 78:694
seasonal occurrence, FB 78:695
temperature and salinity tolerance, FB 78:697
St. Lawrence, Gulf of, FB 81:600
Staphylococcus aureus
microbiological analysis, blue crab samples, MFR 45(7-9):39
Starfish (Astropectinidae)
oyster spat predators, northeastern U.S., MFR 45(3):5
seamount fishery research, central North Pacific, MFR 46(2):12
Steelhead—see also Trout, rainbow
feeding periodicity and diel variation in diet composition in small stream during summer, FB 79:370
juveniles, FB 81:815
production and growth of subyearling in Orwell Brook, New York, FB 78:549
smolts, transportation in Columbia River and effects on adult returns
collection and marketing of fish and fish hauling procedures, FB 78:493
comparison of results with other studies, FB 78:502
effect of transportation on homing, FB 78:503
evaluation of returning adults, FB 78:494
experimental design, FB 78:493
factors influencing assessment of data, FB 78:494
percentage adult returns of transported releases, FB 78:498

Steelhead (continued)
returns (continued)
recovery of marked in the Indian and sport fisheries, FB 78:501
returns of adult experimental fish to hatcheries and spawning grounds, FB 78:501
returns of adult experimental fish to Little Goose Dam, FB 78:496
size and years-in-ocean of adult experimental fish, FB 78:500
straying of experimental groups, FB 78:502
Stellifer lanceolatus—see Drum, star
Stenella attenuata—see Dolphin, spotted
Stenella coeruleoalba—see Dolphin, striped
Stenella longirostris—see Dolphin, eastern spinner; Dolphin, Hawaiian spinner; Dolphin, spinner
Stenella oualaniensis—see Squid
Stenella spp.—see Dolphins
Stenobrachius leucopsarus—see Lampfish, northern
Stenotomus caprinus—see Porgy, longspine
Stenotomus chrysops—see Scup
Stichaeidae
ichthyoplankton off Alaska, TR 20
Stickleback, threespine, FB 81:815
Stizostedion vitreum vitreum—see Walleye
Stock assessment—see Population studies
Stock identification
salmonid, FB 83:81
Stock recruitment
using remote sensing predictions, MFR 46(3):5
Stolephorous devisi—See Anchovy
Stolephorus heterolobus—see Anchovy
Stolephorus purpureus—see Anchovy, Hawaiian
Stomach contents
change in food habits, FB 81:441
change, increasing fish length, FB 81:440
Striata—see Fish, reef
Strombus gigas—see Conch, queen
Strombus spp.—see Conch
Strongylocentrotus franciscanus—see Sea urchin, red
Student-Newman-Kuel's test, FB 81:272
Sturgeon, Atlantic
Delaware River estuary, FB 80:337
Sturgeon, shortnose
biological data, TR 14
Sturgeon, white
Columbia River at Hanford, Washington
snout dimorphism, FB 80:158
diel and seasonal movements in mid-Columbia River, FB 79:367
Submersible
bait loss from halibut longline gear, observing, MFR 42(2):26
Surgeonfish, blueline
Trochus habitat indicator species, MFR 46(4):78
Surimi
processing using red and silver hake, MFR 46(2):43
Surinam
offshore shrimp fishery harvest, U.S., 1978-79, MFR 45(4-6):1
Survey
fishery experiments, MFR 47(4):20
methods
porpoise, harbor, FB 81:910
resource assessments at Mariana Archipelago, MFR 47(4):19
Swim bladder, menhaden, FB 82:513
Swordfish
biology, C 441
daily patterns in activities, observed by acoustic telemetry
buoyancy, FB 79:290
horizontal movements, FB 79:284
navigation, FB 79:279
oxygen, FB 79:289
receiving, FB 79:279
temperature, FB 79:279, 290
transmitters, FB 79:278
vertical movements and light, FB 79:287
development
anal fin, FB 80:169
anal fin pterygiophores, FB 80:171
branchiostegal rays, FB 80:179
caudal fin, FB 80:172
caudal fin supports, FB 80:172
dorsal fin, FB 80:165
dorsal fin pterygiophores, FB 80:166
pectoral fin, FB 80:162
pectoral fin supports, FB 80:163
squamation, FB 80:181
vertebral column, FB 80:175
exploitation, C 441
Florida Straits
cephalopods in the diet, FB 79:765
incidental catch, TR 31
pond fish culture, C 441
protection and management, C 441
shark bycatch fishery, TR 31
Symplectoteuthis luminosa
identification, TR 17
Symplectoteuthis oualaniensis
identification, TR 17
Systematics studies
mackerel, Spanish, FB 82:545

T

Tagging
deepwater fish, FB 81:663
detachable tags, FB 81:664
eel, American, FB 82:519
herring
coded-wire microtags, MFR 44(3):18
lobster, American, FB 82:242
rockfish, FB 81:918
sablefish, FB 81:415
tetracycline, FB 82:208, 237
tilefish, FB 81:663
Tagging experiments
analysis of double-tagging
adjustment factor estimation for single-tag recoveries, FB 80:692
models, FB 80:689
mortality rate, FB 80:699
parameter estimation of specific models, FB 80:693
shedding rate and parameter estimation, FB 80:691
tag loss in single-tagging experiments, FB 80:687
Tagging programs
black marlin in the southwest Pacific
migration, S 772

Tagging programs (continued)
black marlin in the southeast Pacific (continued)
procedure, S 772
results, S 772
Tagging studies
salmonids, TR 27
Tagging techniques
cetaceans, small odontocete, FB 80:135
Tautogolabrus adspersus—see Cunner
Taxonomy
mackerel, Spanish, FB 82:545
scombrids, FB 81:246
shrimp, FB 82:523
shrimp, rock, FB 83:1
Teleost larvae—see also Larvae, teleost
taxonomic studies, C 450
Temperature, sea-surface
California, southern and central coast
effects on sport species, S 759
relationship to striped marlin catch off southern California, MFR 47(3):43
Terebellida
life history, distribution, and abundance in the New York Bight, S 766
Tetrabrachium—see Anglerfish
Tetraodontidae—see Puffers
seamount fishery research, central North Pacific, MFR 46(2):11
Tetraodontiform fishes—see Plectognath fishes
Tetrapturus albidus—see Marlin, white
Tetrapturus angustirostris—see Spearfish, shortbill
Tetrapturus audax—see Marlin, striped
Texas
charter boat fishery
harvest estimates, MFR 45(1):11
1981 closure
comparison of shrimp and finfish catch rates and ratios, MFR 44(9-10):44
effects on shrimp fishery, MFR 44(9-10):1
estimated impacts on ex-vessel brown shrimp prices and value, MFR 44(9-10):38
impacts on shrimp yields, MFR 44(9-10):31
relative abundance and size distribution of commercially important, MFR 44(9-10):5
review of offshore shrimp fishery, MFR 44(9-10):16
shrimp fleet mobility, MFR 44(9-10):50
squid fishery
biological, economic, and market considerations, MFR 42(7-8):44
turnover in charterboat industry 1975-80, MFR 47(1):43
Texas, southern
dolphin, bottlenose
occurrence, movements, and distribution, FB 78:593
Thais haemastoma floridana—see Drill, oyster
Theragra chalcogramma—see Pollock, walleye
Thermal effluent effects, FB 82:199
Thresher, bigeye
taxonomic status and biology
abundance, distribution, and habitat, FB 79:632
age and growth, FB 79:630
characters, distinctive, FB 79:619
color, FB 79:624
commercial importance, FB 79:636
Thresher, bigeye (continued)
taxonomic status and biology (continued)
denticles, FB 79:627
dentition, FB 79:625
food, FB 79:635
notes, descriptive, FB 79:623
parasitology, FB 79:636
prey catching, FB 79:635
reproduction, FB 79:633
size, FB 79:628
status of *Alopias profundus*, FB 79:621
studies, experimental, FB 79:635
vertebrae, FB 79:524
Thunnini
Auxis Cuvier, FB 81:243
Euthynnus Lutken in Jordon and Gilbert, FB 81:244
Katsuwonus Kishinouye, FB 81:244
Subgenus *Neothunnus* Kishinouye, FB 81:245
Subgenus *Thunnus* South, FB 81:245
Thunnus South, FB 81:244
Thunnus alalunga—see Albacore
Thunnus albacares—see Tuna, yellowfin
Thunnus atlanticus—see Tuna, blackfin
Thunnus obesus—see Tuna, bigeye
Thunnus thynnus orientalis—see Tuna, bluefin
Thyroxine
smoltification in juvenile salmon, TR 27
Tilapia nilotica
otoliths, effects of photoperiod and feeding on daily growth patterns of juvenile
correlation between number of otolith rings and age in days after hatching, FB 79:462
experiments under 24-h photoperiod, FB 79:460
feeding experiments, FB 79:460
feeding time and formation of otolith rings, FB 79:463
formation of otolith rings under 12L-12D photoperiod, FB 79:462
formation of otolith rings under 18L-6D and 6L-18D photoperiods, FB 79:463
measurement of daily growth rhythm, FB 79:460
otolith preparation for scanning electron microscopy, FB 79:460
Tilefish
abundance and sediment composition off Georgia, FB 83:443
age, FB 81:756, 760
electrophoresis, FB 81:42, 43
fishery in Mid-Atlantic Bight
catch, MFR 42(11):15
catch rates, MFR 42(11):15
effort, MFR 42(11):15
gear and operations, MFR 42(11):15
history, MFR 42(11):14
size of fish, MFR 42(11):15
growth models, FB 81:757, 760
Gulf of Mexico, FB 81:41
historical data, MFR 45(4-6):16
length and weight relationship, FB 81:758
Middle Atlantic Bight, FB 81:41, 751
morphology, FB 81:42, 44, 47
off South Carolina, Georgia
average size, MFR 45(4-6):23
bottom temperatures, MFR 45(4-6):24
CPUE, MFR 45(4-6):17,18

Tilefish (continued)
off South Carolina, Georgia (continued)
fishery, MFR 45(4-6):25
habitat, MFR 45(4-6):22
relative abundance, MFR 45(4-6):20
seasonal production, MFR 45(4-6):22
test fishing, MFR 45(4-6):17
otoliths, FB 81:752, 755
size structure, FB 81:759
South Atlantic Bight, FB 81:41
southern New England, FB 81:751
tagging, FB 81:663
U.S. east coast, FB 81:41
Tilefish, blueline
fecundity, FB 81:555, 557
gonad, FB 81:554
gonostomatic indices, FB 81:554
juveniles, FB 81:556
ovaries, FB 81:555, 566
sex ratio, FB 81:562, 566
sex transition., FB 81:563, 566
sexual maturity, FB 81:562
spawning, FB 81:557, 566
Todarodes pacificus
identification and estimation of size from beaks, TR 17
Tomcod, Atlantic
observations on early life stages
developmental stages, FB 78:150
dry weight, FB 78:153
egg collection, FB 78:148
egg diameter, FB 78:153
field observations, FB 78:150
field studies, FB 78:147
laboratory studies, FB 78:148
specific gravity, FB 78:152
specific gravity of egg solids, FB 78:154
statistical procedures, FB 78:149
survival to hatch and length at hatching, FB 78:152
water content, FB 78:152
Tomcod, Pacific
early life history studies, MFR 45(10-12):12
larval development in northeast Pacific Ocean
comparative notes on *Theragra chalcogramma* and *Gadus macrocephalus*, FB 78:935
fins, FB 78:931
head and axial skeleton, FB 78:929
identification, FB 78:925
measurements, FB 78:924
morphology, FB 78:929
occurrence, FB 78:935
pigment patterns, FB 78:925
scales, FB 78:935
specimens, FB 78:924
Tomtate
distribution, abundance, and age and growth along southeastern U.S. coast
age and growth, FB 80:3, 10, 15
distribution and relative abundance, FB 80:1, 4, 14
length-weight and fork length-total relationships, FB 80:4, 13
management, FB 80:16
mortality estimates, FB 80:4, 13,
spawning, FB 80:4, 13, 16
Tomtate (continued)
feeding habits in the South Atlantic Bight, FB 83:461
Topsmelt
Laguna San Ignacio, Baja California Sur, Mexico
cleaning symbiosis between, and gray whale, FB 79:360
Total Allowable Level of Foreign Fishing (TALFF)
definition framework, MFR 45(7-9):21
landings, 1981, MFR 45(7-9):22
Toxins—see Ciguatera fish poisoning
Trachipterus altivelis—see Ribbonfish
Trachurus symmetricus—see Mackerel, jack
Tracking
small vessel techniques for pelagic fish, MFR 47(4):35
Transplantations
implications to aquaculture and ecosystems
accidental transplantations, MFR 42(5):6
carp, common, MFR 42(5):3
carp, grass, MFR 42(5):4
crayfish, MFR 42(5):6
diseases, MFR 42(5):7
fish disease control problems, MFR 42(5):11
fish parasites, MFR 42(5):8
fishes, other, MFR 42(5):4
live transport and storage, MFR 42(5):9
ornamental fish trade, MFR 42(5):10
oysters, MFR 42(5):6
purposeful transplantations, MFR 42(5):2
salmonids, MFR 42(5):4
tilapia, MFR 42(5):2
transfer by sea traffic, MFR 42(5):1
Trawl, beam
wheels, metering
effectiveness for measurement of area sampled, FB 78:791
Trawl, midwater nekton
compared with Isaacs-Kidd midwater trawl
effective cross-sectional area of the pelagic trawl, FB 78:533
flushing of the pelagic trawl, FB 78:531
length-frequency comparisons, FB 78:532
midwater trawl description and operation, FB 78:529
pelagic trawl-IKMT comparisons, FB 78:532
Trawl, otter
Chukchi Sea and Beaufort Sea
fishes and invertebrates, S 764
mesh size and the New England groundfishery
applications and implications, S 771
Trawlers, U.S. shrimp
offshore fisheries, French Guiana, Surinam, and Guyana, 1978-79, MFR 45(4-6):1
Trawling
guide to marine fishes, C 431
Trawling, pair
experimental for squid in New England, MFR 42(7-8):57
Trawlnet—see Webbing
Trawlnet section taper
BASIC language code, MFR 45(10-12):43
computer program, MFR 45(10-12):42, 44
hanging ratio calculations, MFR 45(10-12):46
program logic flowchart, MFR 45(10-12):44
subroutines, MFR 45(10-12):45, 46
symmetry test, MFR 45(10-12):43
twine weight parameters, MFR 45(10-12):46
webbing piece dimensions, MFR 45(10-12):42

Trawlnet section taper (continued)
wing, MFR 45(10-12):42
Trawls, shrimp
United States, southeastern
comparative description, TR 3
configuration, TR 3
efficiency, TR 3
flat trawl, ballon, semiballoon, jib, super X-3, otter, cobra, and mongoose configurations, TR 3
Trematodes
distribution and biology, TR 25
fish, commercial, TR 25
herring, White Sea, TR 25
Triacanthodiae—see Spikefishes
Triakis semifasciata—see Shark, leopard
Trichechus manatus—see Manatee, West Indian
Trichodon trichodon—see Sandfish, Pacific
Trichondinidae
parasitology and pathology of marine organisms of the world ocean, TR 25
Triggerfish
finescale
observations, warm water periods, California, MFR 45(4-6):27
gray
age estimation, FB 82:488
annual mortality, FB 82:486
growth, FB 82:488
Triglops murrayi
trophic patterns among larvae in an estuary, FB 80:827
Trimethylamine
estimation in fish muscle, FB 80:157
improved method to analyze in fish
cold method of analysis for TMA, FB 78:472
comparative analyses using fish flesh, FB 78:470
extraction of fish flesh with added TMA and DMA, FB 78:471
extraction of TMA, FB 78:470
extraction procedure for fish flesh, FB 78:466
purification procedures, FB 78:466
reaction of ammonia, FB 78:467
reaction of DMA, FB 78:468
TMA, methods of analyses, FB 78:466
Trinectes maculatus—see Hogchoaker
Trochus niloticus—see Snail, coral reef
Trochus pyramis
predation and competition with coral reef snails, MFR 46(4):76
Trolling
charterboat industry, MFR 47(3):57, 58
ocean, MFR 47(1):1
Trout
aquaculture
soybean meal in diet, C 447
Trout, brook
first isolation of infectious pancreatic necrosis virus (IPNV), MFR 46(3):15
Trout, rainbow
effect of arterial incisions on amount of bleeding and flesh quality, MFR 43(4):16
mortality from finfish pathogens, MFR 46(3):15
Norwegian fish farms, MFR 46(3):44
otoliths, FB 83:81
volcanic ash effects on juvenile smolts, MFR 45(2):9
Trunkfish—see Boxfish, spiny
Tuna
age determination, proceedings, TR 8
Atlantic Ocean, Gulf of Mexico and the Caribbean Sea
guide to fishes taken in longlining, C 435
burnt
conditions leading to rapid deterioration in quality of raw, MFR 43(6):12
induced spawning, FB 79:185
Pacific Ocean
bibliography, 1950-78, S 744
distribution, S 744
resource assessment, Mariana Archipelago, MFR 47(4):19
southern bluefin
catch level, FB 81:726
U.S. tuna trade summary, 1982, MFR 46(1):1
U.S. tuna trade summary, 1983, MFR 46(4):65
Tuna, albacore
California
abundance, 1963-78, S 762
Tuna, bigeye
Papua New Guinea's longline fishery, MFR 45(10-12):55
U.S. tuna trade summary, 1982, MFR 46(1):1
U.S. tuna trade summary, 1983, MFR 46(4):65
Tuna, blackfin
U.S. tuna trade summary, 1983, MFR 46(4):65
Tuna, bluefin
analyses, FB 81:107, 113, 115
California, 1963-78, S 762
catch, FB 81:107
distributions using remote sensing techniques, MFR 46(3):5
eastern North Pacific, FB 81:107
growth, FB 82:434
observations, warm water periods, California, MFR 45(4-6):27
otoliths, FB 82:434, 435
recruitment studies, MFR 45(10-12):4
reproductive biology of western Atlantic
egg diameter heterogeneity, FB 80:126
fecundity estimates, FB 80:131
gonosomatic index, FB 80:123
morphology, gross, FB 80:123
ova size, FB 80:123
ovary histology, FB 80:126
sex composition, FB 80:123
Tuna, bullet
biological data, C 436
Tuna, Japanese longline
estimates of pelagic shark bycatch, TR 31
Tuna, purse seine fishery
guidelines for reducing porpoise mortality, TR 13
Tuna, skipjack
age and growth as indicated by daily growth increments of sagittae, FB 79:151
biological data, C 451
distribution and life history in Australian waters
food, FB 79:92
length, FB 79:89
seasonal distribution, FB 79:88
sexual condition, FB 79:91
spatial distribution, FB 79:86
weight, FB 79:89

Tuna, skipjack (continued)
estimated growth of surface-schooling, from the Papua New Guinea region
estimated length-at-age, FB 79:526
recruitment and exploited size range, FB 79:521
stock movements, FB 79:525
food habits in the southwestern Atlantic, FB 83:379
histamine formation and honeycombing during decomposition at elevated temperatures
antibiotics, MFR 43(10):11
effect of antibiotics, MFR 43(10):12
histamine content, MFR 43(10):11
histamine formation, MFR 43(10):11
honeycombing, MFR 43(10):10, 12
incubation, MFR 43(10):10
microbiological examination, MFR 43(10):11
precooking, MFR 43(10):10
histamine formation at elevated temperatures, MFR 45(4-6):40
histamine producing bacteria, MFR 45(4-6):37
honeycombing and collagen breakdown, MFR 46(2):40
influences of mean environmental conditions on vulnerability to fishing gear
data processing and analysis, MFR 43(6):3
forage, MFR 43(6):2
oxygen, dissolved, MFR 43(6):2
research, future, MFR 43(6):10
salinity, MFR 43(6):2
temperature, MFR 43(6):2
weather, MFR 43(6):3
landings, 1980-81, MFR 45(10-12):47
mollies
efficiency as live bait for pole-and-line fishing, MFR 42(6):15
observations, warm water periods, California, MFR 45(4-6)27
Papua New Guinea DFZ, in, MFR 45(10-12):47
parasite use and fishery implications, FB 83:343
rapid and spontaneous maturation, ovulation, and spawning of ova by newly captured, FB 80:393
respiration rates and low-oxygen tolerance limits
activity-related metabolism, FB 79:41
angular acceleration and excess body temperature, FB 79:45
interrelation of metabolic rate, swimming speed, and body weight, FB 79:43
low-oxygen resistance, FB 79:45
low-oxygen tolerance, FB 79:36, 39
oxygen consumption, FB 79:35, 38
oxygen uptake experiments, FB 79:32, 37
source and preexperimental treatment of fish, FB 79:32
''standard'' metabolism, FB 79:41
terminology relevant to tuna metabolism, FB 79:40
sustainable yield, MFR 45(10-12):47
U.S. tuna trade summary, 1982, MFR 46(1):1
U.S. tuna trade summary, 1983, MFR 46(4):65
Tuna, yellowfin, TR 28
age and growth as indicated by daily growth increments of sagittae, FB 79:151
dolphin mortality reduction research, MFR 46(3):18
estimated growth of surface-schooling, from the Papua New Guinea region
estimated length-at-age, FB 79:526
recruitment and exploited size range, FB 79:521
stock movements, FB 79:525
Tuna, yellowfin (continued)
landings, Texas charterboat fishery, MFR 45(1):16
longline fishery, Papua New Guinea, MFR 45(10-12):55
observations, warm water periods, California, MFR 45(4-6):27
related to dolphin habitats in the Pacific, FB 83:623
U.S. tuna trade summary, 1982, MFR 46(1):1
Tuna fishery
incidental dolphin mortality, FB 83:521
Papua New Guinea
catch, MFR 45(10-12):49, 54
CPUE, MFR 45(10-12):49
distant-water fishery, MFR 45(10-12):52, 54
domestic fishery, MFR 45(10-12):47
economic considerations, MFR 45(10-12):50, 51
exports, MFR 45(10-12):41
FAD's, MFR 45(10-12):50
future, MFR 45(10-12):58
management, MFR 45(10-12):57
resources, MFR 45(10-12):47
Tuna trade, U.S.
albacore production, white meat tuna, MFR 46(4):66
Atlantic catch, MFR 46(1):3
canned tuna imports, MFR 46(4):65, 70
canned white meat tuna, MFR 46(4):67
cannery receipts, MFR 46(1):1
domestic production, MFR 46(4):65
fleet characteristics, MFR 46(4):65
foreign processors, MFR 46(4):65
markets, MFR 46(4):71
Pacific catch, MFR 46(1):2
production, MFR 46(1):4
resource limitations, MFR 46(4):71
retail sales, MFR 46(4):71
tropical light meat tuna processing, MFR 46(4):68
U.S. consumption of canned tuna, MFR 46(4):71
Tunny, little
landings, Texas charterboat fishery, MFR 45(1):15
Turbellaria: Acoela and Nemertodermatida
United States, N.E.
biology, C 440
collecting methods, C 440
diagnostic characteristics, C 440
distribution, C 440
habitat, C 440
key to genera and species, C 440
Turbinaria
as substrate for *Gambierdiscus toxicus*, MFR 46(1):16
Tursiops truncatus—see Dolphin, Atlantic bottlenose; Dolphin, bottlenose
Turtle
Atlantic ridley
radiologic method for examination of gastrointestinal tract, FB 78:965
incidental capture, Japanese tuna longline fleet, 1978-81
green sea, MFR 46(3):57
Kemp's ridley, MFR 46(3):57
leatherback, MFR 46(3):57
loggerhead, MFR 46(3):57
loggerhead
radiologic method for examination of gastrointestinal tract, FB 78:965

Turtle, green
biological data
Hawaiian Islands, TM SWFC-7
radio telemetry of Hawaiian at breeding colony
habitat utilized, MFR 44(5):19
past telemetry work within breeding colonies, MFR 44(5):15
receivers, MFR 44(5):16
residence times, MFR 44(5):17
site, MFR 44(5):14
transmitters and deployment on turtle, MFR 44(5):15
turtles, MFR 44(5):14
recovery efforts
northwestern Hawaiian Islands, TM SWFC-36
Turtle, sea
incidental tuna-trawl catch
Atlantic longline fishery, in, MFR 46(3):57
catch, MFR 46(3):56
catch permits, MFR 46(3):49
distribution, MFR 46(3):57
satellite tracking
background, MFR 44(4):19
captive behavioral studies, MFR 44(4):20
equipment, MFR 44(4):19
preliminary technical considerations, MFR 44(4):20
tracking, MFR 44(4):22
transmitter contruction details, MFR 44(4):21
transmitter functional tests, MFR 44(4):21
transmitter structural tests, MFR 44(4):20
turtle release, MFR 44(4):22
Turtles, marine
radio tracking juvenile
aircraft navigation, MFR 43(3):23
antenna system, MFR 43(3):22
Florida Bay experiment, MFR 43(3):23
Homosassa, Florida, experiment, MFR 43(3):23
receivers, MFR 43(3):22
system description, MFR 43(3):20
transmitter, MFR 43(3):21

U

Ultrasonic telemetry techniques, MFR 47(4):35
Ulua
predation on released spiny lobsters in Hawaiian Islands, MFR 47(1):28
United States
aquaculture
phytoplankton, C 442
seaweed, C 442
fish meal demand analysis, FB 78:267
reefs, artificial
use of designed and prefabricated, MFR 44(6-7):4
United States, northeast
experimental squid jigging off, MFR 42(7-8):60
hake, silver
stocks and fishery, MFR 42(1):12
lichens of the intertidal region from New Jersey to Newfoundland, C 446
United States, southeast
configurations of shrimp trawls, TR 3
groundfish monitoring and sponge-coral areas, MFR 42(5):21
United States, southeast (continued)
National Marine Fisheries Service
quantification of habitat conservation efforts, MFR 44(12):18
squid catches resulting from trawl surveys off, MFR 42(7-8):39
United States Department of Commerce
Voluntary Fishery Product Inspection Program, MFR 46(3):76
United States fisheries
regulatory guidelines, MFR 46(3):49
United States Grade Standards
fishery products, MFR 46(3):76
grades of frozen fish blocks, MFR 46(2):38, MFR 46(3):76
Urchins, heart
biological data, TR 33
key to species, TR 33
systematic list, TR 33
Urophycis chuss—see Hake, red
Urophycis regia—see Hake, spotted; Haddock
Urophycis tenuis—see Hake, white
Urosalpinx cinerea—see Drill, oyster
Ursus maritimus—see Bear, polar

V

Valella valella—see Jellyfish
Vancouver Island
salmon, *Oncorhynchus* spp.
factors influencing ocean catches, S 753
Vegetation—see Habitat effects
Vessel costs, FB 82:365
Vibrio
in freshly caught marine fish, MFR 45(4-6):35
Vibrio alginolyticus
in skipjack tuna, MFR 45(4-6):40
Vibrio cholerae
microbiological analysis, blue crab samples, MFR 45(7-9):39, 42
Virgin Islands
fishing techniques
demonstration of advances in small boat, MFR 43(11):11
Virus
pathology and parasitology of marine fish, TR 25
Volcanic ash
effect on salmon smolts, MFR 45(2):8
hazard concentration levels, MFR 45(2):11
hazard to juvenile salmon, MFR 45(2):10-12
particulate size, MFR 45(2):9
Von Bertalanffy growth equation
age-frequency estimation, FB 81:92
bonito, Pacific, FB 81:93
clam, soft-shell, FB 81:75, 78
mackerel, king, FB 81:104
otolith growth, FB 81:530

W

Wagner Tree, FB 81:253, 259
Walleye—see also Pollock
diel periodicity, FB 82:414
feeding ecology, FB 82:411
growth and fecundity in the Columbia River, FB 83:701
prey, FB 82:413, 415
young-of-the-year growth characteristics in John Day Reservoir on the Columbia River, 1979, FB 79:567

Walrus
Bering Sea, FB 81:502
benthic feeding record, FB 81:503
effect on benthic communities, FB 81:507
effects on bottom distribution, FB 81:510
feeding behavior, FB 81:509
furrow, FB 81:503, 510
incidental catch, foreign fishing vessels, MFR 45(7-9):45
interaction among marine mammals, FB 81:510
pit, FB 81:503, 509
satellite monitoring of winter ice cover, MFR 46(3):7
shells, FB 81:504,510
tusks, FB 81 81:510
Walrus, Pacific
abundance and distribution, TR 12
food habits in the Bering Sea, TR 12
Washington
anchovy, northern
reproduction off, FB 78:603
spawning biomass and early life in northern subpopulation, FB 78:855
food of Pacific white-sided dolphin, Dall's porpoise, and northern fur seal off, FB 78:951
foreign fisheries off, 1977-78, MFR 43(5):36
marine habitat enhancement and urban recreational fishing, MFR 44(6-7):28
Puget Sound
fish foraging on an artificial reef, MFR 44(6-7):38
rockfish
distribution and abundance, 1977, MFR 42(3-4):2
rockfish, yellowtail
length and age composition, 1977, MFR 42(3-4):54
salmon, coho
phenotypic differences among hatchery and wild stocks, FB 80:105
sole, butter
eggs and larvae off, FB 78:401
southern coast
mass mortality of female Dungeness crab, FB 79:349
Wastewater
processing, from two mechanized salmon canneries
analytical results, MFR 43(1):22
analytical techniques, MFR 43(1):22
cannery description, MFR 43(1):21
sampling techniques, MFR 43(1):21
waste discharged for each unit of production, MFR 43(1):23
water used for each unit of production, MFR 43(1):22
Water currents
influence of on daily foraging movements of blacksmith, FB 78:829
Water structure
Pacific Ocean, N.W.
studies from Ocean Weather Station V, 1966-71, S 742
Waterways experiment station, 1974-76, MFR 47(3):21, 23
Weakfish
age determination, FB 81:805
annulus measurement, FB 81:805
chemical composition, MFR 45(7-9):27
frozen storage stability, MFR 45(7-9):27
growth in weight, FB 81:807
history, FB 82:500
length at age, FB 81:805
Weakfish (continued)
marsh habitat, FB 82:457
Middle Atlantic Bight, FB 81:803
minced food products, use in, MFR 45(7-9):28
processing yields, MFR 45(7-9):29
product evaluation, MFR 45(7-9):28
recreational catch, MFR 45(7-9):27
reproduction, FB 82:501, 502, 510
sensory evaluation, MFR 45(7-9):28, 30
Webbing
bellies, MFR 45(10-12):33
body cuts, MFR 45(10-12):26, 28
computer calculation, MFR 45(10-12):26, 42
cutting square mesh sections, MFR 45(10-12):41
cutting trawlnet sections, MFR 45(10-12):32
double tapers, MFR 45(10-12):36
extensions, MFR 45(10-12):33
jib cuts, MFR 45(10-12):26, 28, 30
shaping and assembling, MFR 45(10-12):26
tapering, MFR 45(10-12):26
trapezoidal net sections, MFR 45(10-12):35
trawl wings, MFR 45(10-12):34
wing assembly, MFR 45(10-12):38
Whale, beluga
satellite monitoring of ice cover, MFR 46(3):7
Whale, blue
distribution, MFR 46(4):16
exploitation, MFR 46(4):18
management, MFR 46(4):18
migration, MFR 46(4):15
mortality, natural, MFR 46(4):18
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
identification, C 444
reproduction, MFR 46(4):17, 18
stocks, MFR 46(4):16, 17
Whale, bottlenose
Pacific Ocean and Arctic waters
identification, C 444
Whale, bowhead
Arctic population, western
minimal historical size, MFR 42(9-10):27
behavior in the Beaufort Sea, FB 83:357
Bering and Chukchi Seas
vessel surveys, June-July 1978, MFR 42(9-10):51
Bering, Chukchi, and Beaufort Seas
abundance, S 778
distribution, S 778
migration, S 778
distribution, MFR 46(4):45
estimated initial population size of Bering Sea stock
aspects of fishery, FB 78:852
catch history, FB 78:845
data limitations, FB 78:850
estimates of current stock size, FB 78:845
estimates of initial stock size, FB 78:845
lag time, FB 78:847
model development, FB 78:847
model limitations, FB 78:851
natural mortality, FB 78:847
net recruitment rate, FB 78:847
recovery times, FB 78:850

Whale, bowhead (continued)
estimated initial population size of Bering Sea stock (continued)
risk analysis, FB 78:848
vital parameters, FB 78:850
exploitation, MFR 46(4):49
fetuses and calves
morphology, external, MFR 42(9-10):74
foods utilized near Barter Island, Alaska, autumn 1979, MFR 42(9-10):88
historical shore-based catch in Bering, Chukchi, and Beaufort Seas
aboriginal phase, MFR 42(9-10):9, 10
Canada, MFR 42(9-10):16
commercial phase, MFR 42(9-10):9, 13
data recording, MFR 42(9-10):9
data sources, MFR 42(9-10):9
evolution, MFR 42(9-10):9
subsistence phase, MFR 42(9-10):9, 14
U.S.S.R., MFR 42(9-10):14
ingutuk: a morphological variant
genetic-biochemical analysis, MFR 42(9-10):72
geographic isolation, MFR 42(9-10):71
morphological features, MFR 42(9-10):71
proportion observed, MFR 42(9-10):71
sex and size-class variation, MFR 42(9-10):71
taxonomic considerations and Eskimo nomenclature, MFR 42(9-10):70
injury, healed penetrating, MFR 42(9-10):92
management, MFR 46(4):51
migration, MFR 46(4):45, 47
migration past Cape Lisburne, Alaska
behavior, MFR 42(9-10):50
census, MFR 42(9-10):47
direction headed, MFR 42(9-10):49
distance offshore, MFR 42(9-10):49
dive times, MFR 42(9-10):50
surface times, MFR 42(9-10):51
timing of migration, MFR 42(9-10):49
travel rate, MFR 42(9-10):48
visual cues, MFR 42(9-10):50
mortality, natural, MFR 46(4):49
observations of spring migration
dive profiles, MFR 42(9-10):81
"exuberant" behavior, MFR 42(9-10):83
feeding behavior, MFR 42(9-10):84
group size, MFR 42(9-10):81
maneuvering in ice, MFR 42(9-10):82
rate and direction, MFR 42(9-10):81
reaction to human disturbance, MFR 42(9-10):83
resting, MFR 42(9-10):83
size class distribution, MFR 42(9-10):81
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
identification guide, C 444
pelagic whaling industry: 1848-1915
preliminary estimate of reduction of western Arctic population, MFR 42(9-10):20
population, MFR 46(4):51
reproduction, MFR 46(4):49
review of Spitsbergen stock
aboriginal exploitation, MFR 42(9-10):65
commercial exploitation, whale distribution, and stock identity, MFR 42(9-10):65
Whale, bowhead (continued)
review of Spitsbergen stock (continued)
historical status, MFR 42(9-10):67
present status, MFR 42(9-10):69
reasons for decline and failure to recover, MFR 42(9-10):68
sampling strategy for enumerating western Arctic population
aerial survey, MFR 42(9-10):31
computer modeling to improve accuracy and precision, MFR 42(9-10):34
ice and land camps, MFR 42(9-10):31
measurement of accuracy and precision for missed data, MFR 42(9-10):35
relative abundance, MFR 42(9-10):34
study area, MFR 42(9-10):30
total abundance, MFR 42(9-10):31
satellite monitoring of ice cover, MFR 46(3):7
scientific perspective of program
data lack stimulates U.S. research, MFR 42(9-10):3
harvest monitoring results, MFR 42(9-10):3
legal background, MFR 42(9-10):4
life history and stock identity, MFR 42(9-10):2
population estimates, MFR 42(9-10):4
utilization history, MFR 42(9-10):2
some observations on urine, MFR 42(9-10):91
sounds recorded in presence of adult and calf, MFR 42(9-10):86
spring migration of western Arctic population
data sources, MFR 42(9-10):37
effect of ice cover on migration, MFR 42(9-10):44
migration routes and timing, MFR 42(9-10):37
study area and ice conditions, MFR 42(9-10):37
stocks, MFR 46(4):47
summer distribution in eastern Beaufort Sea
recent observations, MFR 42(9-10):59, 60
whaling ship observations, MFR 42(9-10):57, 59
Whale, Bryd's
Pacific Ocean and Arctic waters
a guide to identification, C 444
Whale, dwarf sperm
Pacific Ocean and Arctic waters
a guide to identification, C 444
Whale, false killer
Pacific Ocean and Arctic waters
a guide to identification, C 444
recurrent mass stranding in Florida
behavior in captivity, FB 78:174
hematology, FB 78:174
relationships among strandings, FB 78:175
sequence of events, FB 78:171
Whale, fin
distribution, MFR 46(4):20
exploitation, MFR 46(4):22
feeding, MFR 46(4):22
management, MFR 46(4):24
migration, MFR 46(4):20
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
a guide to identification, C 444
population, MFR 46(4):23
reproduction, MFR 46(4):22
stocks, MFR 46(4):21
Whale, gray
analysis methods, FB 81:270, 272, 277

Whale, gray (continued)
calving lagoon, FB 81:513, 517
distribution, MFR 46(4):7
exploitation, MFR 46(4):10
feeding, MFR 46(4):9
feeding behavior, FB 81:514, 520
identification, MFR 46(4):7
infaunal prey, FB 81:517
Laguna San Ignacio, Baja California Sur, Mexico
cleaning symbiosis between, and topsmelt, FB 79:360
management, MFR 46(4):7
migration, FB 81:267, MFR 46(4):8
migratory timing, FB 81:274
natural mortality, MFR 46(4):10
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
a guide to identification, C 444
population assessment, FB 81:267
reproduction, MFR 46(4):10
satellite data applied to management, MFR 46(3):9
stocks, MFR 46(4):7
visibility, FB 81:275
Whale, humpback
applications of satellite data for migration patterns, MFR 46(3):9
distribution, MFR 46(4):31
exploitation, MFR 46(4):35
feeding, MFR 46(4):33
feeding behavior in western North Atlantic
behavioral strategies, FB 80:265
bubbling behaviors, FB 80:261,
circular swimming/thrashing, FB 80:260
inside loop behavior, FB 80:261
lunge feeding, FB 80:260
prey species, FB 80:266
habitat protection, MFR 46(4):36
identification, MFR 46(4):36
management, MFR 46(4):35
migration, MFR 46(4):31, MFR 46(3):9
mortality, MFR 46(4):34
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
identification, C 444
population, MFR 46(4):35
recruitment, MFR 46(4):34
reproduction, MFR 46(4):34
stocks, MFR 46(4):31
Whale, killer
as predators on humpback whale calves, MFR 46(4):34
interactions with North Pacific longline fishery, MFR 45(7-9):48
Pacific Ocean and Arctic waters
identification, C 444
Whale, melon-headed
Pacific Ocean and Arctic waters
identification, C 444
Whale, Pygmy killer
Pacific Ocean and Arctic waters
identification, C 444
Whale, pygmy sperm
Pacific Ocean and Arctic waters
identification, C 444
Whale, right
distribution, MFR 46(4):38
Whale, right (continued)
exploitation, MFR 46(4):42
feeding, MFR 46(4):41
identification, MFR 46(4):38
management, MFR 46(4):43
migration, MFR 46(4):38
mortality, MFR 46(4):42
observations in Cape Cod waters, FB 80:875
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
identification, C 444
population, MFR 46(4):43
reproduction, MFR 46(4):41
stocks, MFR 46(4):39
Whale, sei
distribution, MFR 46(4):25
exploitation, MFR 46(4):27
feeding, MFR 46(4):27
identification, MFR 46(4):25
management, MFR 46(4):28
migration, MFR 46(4):25
mortality, MFR 46(4):27
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
identification, C 444
population, MFR 46(4):28
reproduction, MFR 46(4):27
stocks, MFR 46(4):27
Whale, short-finned pilot
Pacific Ocean and Arctic waters
identification, C 444
Whale, sperm
distribution, MFR 46(4):54
exploitation, MFR 46(4):60
feeding, MFR 46(4):59
identification, MFR 46(4):54
management, MFR 46(4):63
overview status report, MFR 46(4):2
Pacific Ocean and Arctic waters
identification, C444
population, MFR 46(4):60
reproduction, MFR 46(4):60
stocks, MFR 46(4):59, 62
Whale, white
Bering, Chukchi, and Beaufort Seas
abundance, S 778
distribution, S 778
migration, S 778
Pacific Ocean and Arctic waters
a guide to identification, C 444
Whale Ridge
parsitofauna of fishes, TR 25
Whales
Pacific Ocean and Arctic waters
identification, C 444
Whales, beaked
Pacific Ocean and Arctic waters
Baird's, C 444
Blainville's, C 444
Cuvier's, C 444
Ginkgo-toothed, C 444
Hector's, C 444

Whales, beaked (continued)
Pacific Ocean and Arctic waters (continued)
Hubb's, C 444
identification guide, C 444
Whales, dolphins, and porpoises
Pacific Ocean and Arctic waters
identification, C 444
Japanese and Russian names, C 444
strandings, C 444
tagging procedures, C 444
Whales, Minke
Pacific Ocean and Arctic waters
identification, C 444
Whales, Pacific pilot
undersea topography and distribution, FB 83:472
Whaling industry, pelagic
bowhead
preliminary estimate of reduction of western Arctic population, 1848-1915, MFR 42(9-10):20
Wheels, metering
effectiveness for measurement of area sampled by beam trawls
consistency with other estimates of distance, FB 78:794
count consistency, FB 78:793
wheel counts versus catch data, FB 78:794
Whiting
blocks
frozen storage characteristics, MFR 42(1):55
fillet block survey, MFR 42(1):44
handling aboard fishing vessels
bleeding, MFR 42(1):21
chilling, MFR 42(1):22
effect of rigor mortis, MFR 42(1):22
gutting, MFR 42(1):21
temperature, MFR 42(1):22
washing, MFR 42(1):21
Whiting, Atlantic
effect of various antioxidants on flavor stabilization of
frozen minced
methods, MFR 44(8):17
peroxide value, MFR 44(8):17
sensory evaluation, MFR 44(8):17
statistical analysis, MFR 44(8):18
TBA number, MFR 44(8):17
Whiting, Pacific, FB 82:68
abnormal muscle texture caused by myxosporidian-induced proteolysis
chemical determinations, MFR 44(5):2
fish samples, MFR 44(5):2
heat inactivation of enzyme, MFR 44(5):4
microscopy, MFR 44(5):2
myxosporidia, morphology and structure, MFR 44(5):7
parasite appearance, macroscopic and microscopic, MFR 44(5):5
parasitization severity and incidence, MFR 44(5):2,3
parasitization severity related to abnormal texture, MFR 44(5):5
parasitized condition involves enzyme-induced proteolysis, MFR 44(5):3
relation of parasitization to flesh pH, MFR 44(5):4
relation of parasitization to level of flesh protein, MFR 44(5):4
texture development, mechanism of abnormal, MFR 44(5):10
texture evaluation, MFR 44(5):2
texture evaluation of frozen fillet block portions, MFR 44(5):11
Whiting, Pacific (continued)
abnormal muscle texture etc. (continued)
texture evaluation of live, frozen in dry ice, MFR 44(5):10
texture of commercial fillets, effect of refrigerated storage, MFR 44(5):11
abundance
biomass estimates, MFR 47(2):83, 84, 87, 88, 90, 93, 94
Canadian zone, MFR 47(2):80
ocean environment, MFR 47(2):8
Pacific coastal stock, MFR 47(2):6, 7
Puget Sound, MFR 47(2):37
Strait of Georgia, MFR 47(2):28, 32
trawl surveys, MFR 47(2):83, 88, 89
applications of satellite data for fisheries management, MFR 46(3):5
biology and and life history
Canadian zone, MFR 47(2):75
Pacific coastal stock, MFR 47(2):2
Puget Sound, MFR 47(2):35-38
Strait of Georgia, MFR 47(2):23
biomass estimates
—see Whiting, Pacific, abundance
Canadian zone
age composition of strong year class, MFR 47(2):78, 79
biology and fishery of offshore stocks, MFR 47(2):75
commercial fishery, MFR 47(2):80
migration, MFR 47(2):75, 76
size and sex composition, MFR 47(2):76
stock abundance and management, MFR 47(2):80
daily ration, FB 81:635
diel feeding pattern, FB 81:634
distribution, abundance, and biological characteristics, MFR 42(3-4):21
age composition, MFR 42(3-4):26
bottom trawl survey, MFR 42(3-4):18
hydroacoustic-midwater trawl survey, MFR 42(3-4):18
length composition, MFR 42(3-4):28
Pacific coastal stock, MFR 47(2):2, 3
Puget Sound, MFR 47(2):35
sample density, MFR 42(3-4):21
Strait of Georgia, MFR 47(2):24, 25
trawl surveys, MFR 47(2):83, 88, 89
economic studies
marketing, MFR 47(2):42, 33, 72, 73
product quality, MFR 47(2):42
feeding habits, MFR 47(2):13, 14, 16
Strait of Georgia, MFR 47(2):32
fishery
biomass estimates, MFR 47(2):83, 97
Canadian zone, MFR 47(2):80
condition, MFR 47(2):95
economics, MFR 47(2):42
environmental factors, MFR 47(2):10
foreign, MFR 47(2):42, 40, 41, 49, 50
harvesting technologies, MFR 47(2):47
history, MFR 47(2):39, 95
joint venture, MFR 47(2):40, 41, 42, 49, 50
management, MFR 47(2):33, 37, 38, 95
markets, MFR 47(2):42, 33, 72 ,73
processing, MFR 47(2):42, 33, 69
product quality, MFR 47(2):42
Puget Sound population, MFR 47(2):35

Whiting, Pacific (continued)
fishery (continued)
shore-based, MFR 47(2):39
Strait of Georgia, MFR 47(2):23
U.S. domestic, MFR 47(2):39
fishery off central California
population fluctuations of California sea lions and, FB 80:253
food, FB 81:630
growth
Canadian zone, MFR 47(2):76
ocean environment, MFR 47(2):13
Pacific coastal stock, MFR 47(2):4
Strait of Georgia, MFR 47(2):28
harvesting technologies
foreign fishing fleets, MFR 47(2):49, 50
gear types, MFR 47(2):47
joint venture, MFR 47(2):49, 50
larvae distribution patterns, MFR 45(10-12):16
management
—see Whiting, Pacific, fishery
markets
—see Whiting, Pacific, economics
migration
Canadian zone, MFR 47(2):75, 76
Pacific coastal stock, MFR 47(2):2, 3
mortality
Pacific coastal stock, MFR 47(2):4,5
Strait of Georgia, MFR 47(2):33
ocean environment and recruitment
environmental factors, MFR 47(2):10
growth, MFR 47(2):13
population fluctuation, MFR 47(2):8
predation, MFR 47(2):13, 14
spawning, MFR 47(2):12
Pacific Coastal stock
abundance, MFR 47(2):6, 7
biology and life history, MFR 47(2):2
distribution, MFR 47(2):2, 3
growth, MFR 47(2):4
migration, MFR 47(2):2, 3
mortality, MFR 47(2):4, 5
reproduction, MFR 47(2):3, 4
parasites
effect of infestation, MFR 47(2):56, 57
Myxosporean, *Kudoa* spp., MFR 47(2):55
prevalence and intensity of infection, MFR 47(2):58
population estimates
—see Whiting, Pacific, abundance
preservation and processing
chemical composition, MFR 47(2):60
markets, MFR 47(2):72, 73
parasites, MFR 47(2):56, 57, 60, 73
processing, MFR 47(2):42, 69
production, MFR 47(2):71
product quality, MFR 47(2):42
protein content, MFR 47(2):60
sensory properties, MFR 47(2):62
Strait of Georgia, MFR 47(2):33
predation
—see Whiting, Pacific, feeding habits
predator-prey size relationships, FB 81:632
Whiting, Pacific (continued)
protease inhibitors on proteolysis in parasitized muscle
blended fish, FB 80:282, 283
diabasic phosphate peroxides, FB 80:284
effect of inhibition on texture, FB 80:282, 285
enzyme inhibitors, FB 80:282
fillet treatment, FB 80:286
frozen storage effect, FB 80:285
ground fish, FB 80:282, 283
hydrogen peroxide, FB 80:284
oxidative effect on amino acids, FB 80:282, 285
potassium bromate, FB 80:284
preparation of ground fish blocks for storage, FB 80:282
test for presence of peroxides or bromates, FB 80:283
Puget Sound population
distribution, MFR 47(2):35
fishery, MFR 47(2):36
management, MFR 47(2):37, 38
population estimates, MFR 47(2):37
spawning, MFR 47(2):35
recruitment studies, MFR 45(10-12):4
reproductive biology
Canadian zone, MFR 47(2):76
ocean environment, MFR 47(2):12
Pacific coastal stock, MFR 47(2):3, 4
Puget Sound population, MFR 47(2):35
Strait of Georgia, MFR 47(2):31
Strait of Georgia
abundance, MFR 47(2):28, 32
aging, MFR 47(2):23, 26, 27
biology, MFR 47(2):23
distribution, MFR 47(2):24, 25
feeding habits, MFR 47(2):32
fishery, MFR 47(2):23
growth, MFR 47(2):28
management, MFR 47(2):33
markets, MFR 47(2):33
mortality, MFR 47(2):33
population, MFR 47(2):28
processing, MFR 47(2):33
reproductive biology, MFR 47(2):31
three different delivery modes for fresh-caught
annual catch rate, MFR 42(2):34
business and indebtness, MFR 42(2):36
contingency, MFR 42(2):35
crew, MFR 42(2):32
daily catch rate, MFR 42(2):33
delivery modes, MFR 42(2):31, 32
depreciation, MFR 42(2):36
ex-vessel price, MFR 42(2):34
fuel, MFR 42(2):34
gear maintenance, MFR 42(2):36
gross profit, MFR 42(2):35
gross stock, MFR 42(2):34
gross vessel share, MFR 42(2):36
hull insurance, MFR 42(2):36
ice, MFR 42(2):35
income taxes, MFR 42(2):36
lubrication, MFR 42(2):35
operating schedules, MFR 42(2):32
Oregon State landing tax, MFR 42(2):35
protection and indemnity, MFR 42(2):36

Whiting, Pacific (continued)
three different delivery modes for fresh-caught (continued)
provisions, MFR 42(2):35
vessel characteristics, MFR 42(2):31
trawling surveys
biomass estimates, MFR 47(2):83, 94
bottom trawling surveys, MFR 47(2):82, 83
midwater trawl surveys, MFR 47(2):83, 87, 88
trophic role, MFR 47(2):16
west coast of North America, FB 81:629
Willapa Bay, Washington
eel, wolf
migration of juvenile from Port Hardy, British Columbia, to, FB 80:650
Windowpane
Atlantic Ocean
food habits, S 749
Gulf of Maine
trophic relationships, FB 79:775
Woods Hole
east coast bivalves, S 768
mollusk specimen collections, S 768

XY

Xanthids
as oyster spat predators, northeastern U.S., MFR 45(3):5
Xiphias gladius Linnaeus—see Swordfish
Yellowtail
California, southern and central
abundance, 1963-78, S 762
temperature effects on sport fishing, S 759
culture in Japan, TR 10
effects of sea surface temperature changes, MFR 45(4-6):31

Z

Zalophus californianus—see Sea lion, California
Zaniolepsis—see Combfish
Zoeae—see Larvae
Zoogeography
helminth characteristics of the world ocean, TR 25
Zooplankton
abundance, FB 81:857
Atlantic, northwest
effect of season and location on relationship between displacement volume and dry weight, FB 80:631
coherence in dominance, FB 81:856
coherent patterns of biomass, FB 81:855
effluent effects, FB 82:204
influence of density on daily foraging movements of blacksmith, FB 78:829
kelp forest, FB 82:55
measurement, FB 81:857
mesoscale changes, FB 81:855
New York Bight
effects of environment on, TR 5
net sampling, TR 5
northwest Atlantic, FB 81:855
observation, FB 81:857
sampling studies, FB 81:381
shallow coastal water, FB 82:97, 188
species shifts in dominance, FB 81:857
vertical structure off southern California, FB 83:151

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